Chapter - 1

SALIENT FEATURE OF SHEIKHUPURA DIVISION UCC

1.1 Location

Sheikhupura Canal Division UCC is the tail end Division of Upper Chenab Canal Circle of Lahore Irrigation Zone, Lahore. Its jurisdiction starts from RD 200+000 of Main Line Lower (UCC), Sheikhupura, Gujranwala Road to Link Baig Pur to Sadhoki road near Kingriali Village District Gujranwala and ends up to right bank of Ravi River from Sharqpur Sharif to Syedwala Town District Nankana Sahib. The Upper portion of the Division falls in District Gujranwala, whereas the middle and lower portion falls in District Sheikhupura and Nankana Sahib. The total length of the channels is 386.74 miles and Flood Embankments / bunds is 28.16 miles along with 8 Nos. spurs. However, DDC bund along with hockey spur, Noor pur Arrayian have been transferred to Rachna Drainage Division, Sheikhupura vide Chief Engineer Lahore Zone office order No 2131/Works. (II)LHR/2023/19976-95/173/84 dated 09 August 2023. Now Sheikhupura Division UCC has total 10.24 miles of Flood Embankments & 07 Nos. Spurs / River training works.

1.2 General Description

There are several surface drains and natural Nullahs in the jurisdiction of Sheikhupura Division UCC, which provide drainage to the area and outfall into Ravi River U/S Balloki Headworks. Major Nullah is known as Deg Nullah. It out falls into Deg Diversion Channel about 5 km D/S tail Main Line Lower (UCC) in District Sheikhupura. Deg Diversion channel falls into Ravi River 10 km D/S Sharqpur Sharif. Ravi River runs almost 140 km along south-eastern boundary of Sheikhupura Division.

Agricultural lands along the River are quite fertile and popular for growing export quality Rice, which contributes major share in earning foreign exchange for the mother land. Very delicious and export quality Guava orchards also exist in this belt of land. Concentration of human settlement along River in District Sheikhupura & Nankana Sahib is high. Ravi River from Village Nawan Kot near Mandi Faizabad to Syedwala (upto Madho Village, District Nankana Sahib) falls under the Jurisdiction of Sheikhupura Division UCC. Sikhanwala, Khakh (Both Non-perennial channels) and Syedwala Disty system (Perennial) flows along right side of Ravi River and provide irrigation water to the lands included in UCC command. One major bund (MDD) and 07 Nos. spurs were constructed to save the town, village abadies, Irrigation Network and other vital infrastructures of the area like schools, colleges, hospitals, public / private buildings, electric, roads, water supply, and sewerage networks, factories and precious agriculture lands from major inundation in case of occurrence of medium to high floods as well as to avoid direct hit of the River to the inhabitants settled along the right bank.

Detail of total agriculture command area, Irrigation intensity, water allowances and No. of outlets with length of Main Canal, Branch Canal and Disty / Minors have been explained as under: -

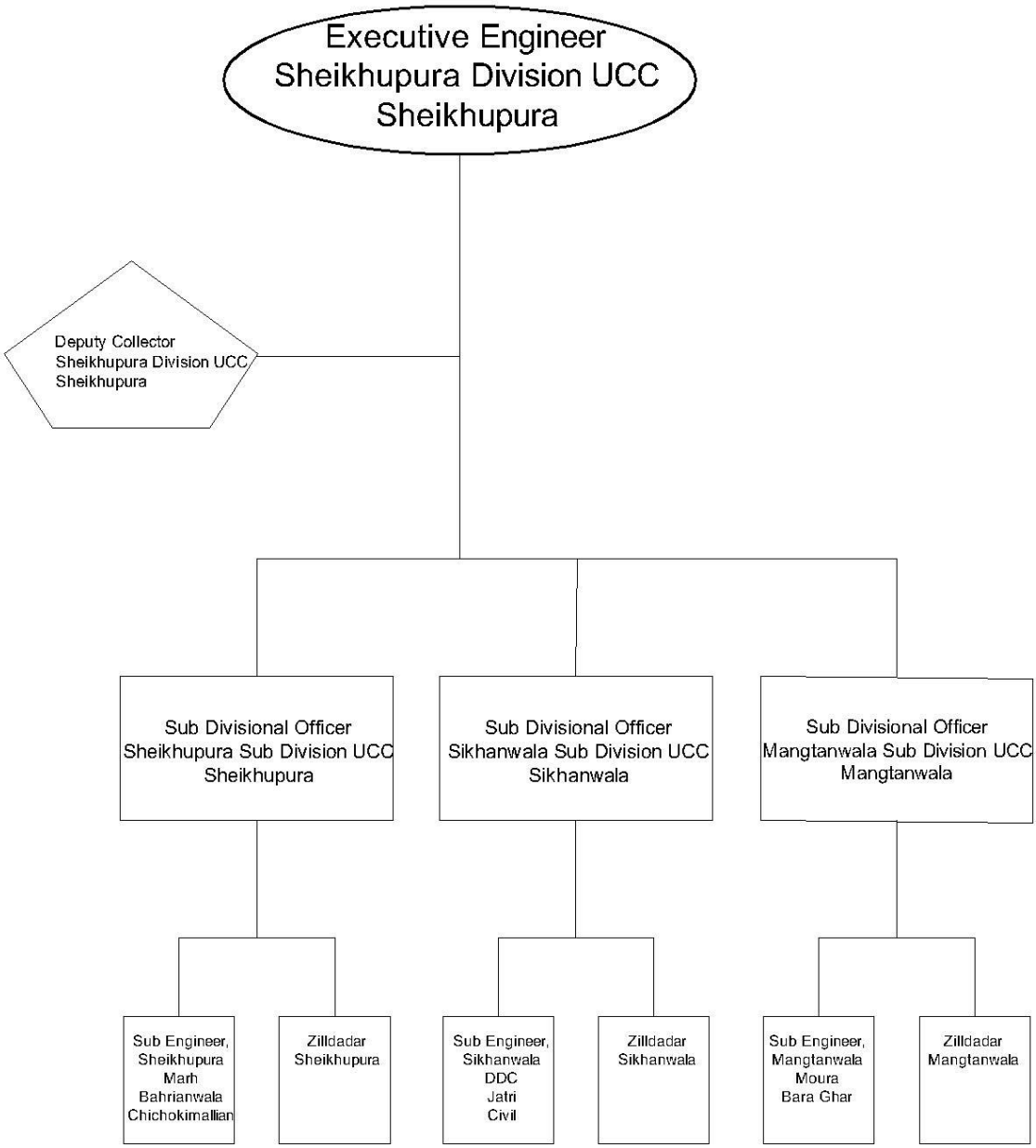
S#	Canal System	Length of Main Canal	Length of Branch	Length of Disty/Minor	Supply Escape channel	CCA	Irrigation intensity	Water Allowance %0 Acres	No. of outlets
		Canal / Mile	Canal / Mile	Canal / Mile	Canal / Mile				
1	Perennial Channel	16.62	25.7	234.44	-	278635	60%	2.73	655
2	Non-Perennial Channel	-	6.48	150.30	-	94514	25%	3.79	244
	Total =	**16.62**	**32.18**	**354.55**	**-**	**373149**			**899**

Deg Diversion Bund alongwith 2 No. cross spurs and Hockey spur falls in the boundary of District Sheikhupura whereas Maddodass bund and other 8 Nos. spurs fall in the boundary of District Nankana Sahib. However, the Deg Diversion Bund along with 2 no cross spurs and Hockey spur have been transferred to Rachna Drainage Division Sheikhupura vide Chief Engineer Lahore Zone office order No 2131/Works. (II)LHR/2023/19976-95/173/84 dated 09 August 2023. The reserve stock available at these structures have also been handed over to Rachna Drainage Division.

Detail of Flood Protection Bunds and River Training Works of Sheikhupura Division UCC are as under:

1. Maddodass Bund RD 0+000 to 51+180. (District Nankana Sahib)
2. J-Head spur Nawan Kot near Mandi Faizabad. (District Nankana Sahib)
3. Mole Head spur RD 17+630/Left of Madhodass Bund. (District Nankana Sahib)
4. Protection works opposite RD 121+000 of Syedwala Disty. (District Nankana Sahib)
5. J-head spur near village Faridabad. (District Nankana Sahib)
6. J-head spur near village Kund Qasim. (District Nankana Sahib)
7. Concavo Convex guide wall spur near village Kund Reham shah. (District Nankana Sahib)
8. J-Head spur near old SyedwalaTown. (District Nankana Sahib)
9. J-Head spur opposite SyedwalaTown. (District Nankana Sahib)
10. Solid stone stud 3 Nos. (Opposite abadi Old SyedwalaTown). (District Nankana Sahib)

1.3 ADMINISTRATIVE SETUP



Executive Engineer,
Sheikhupura Division UCC,
Sheikhupura

Chapter -2

FLOOD PROTECTION AND RIVER TRAINING WORKS

(DESIGN PARAMETERS OF TRAINING WORKS / FLOOD EMBANKMENTS

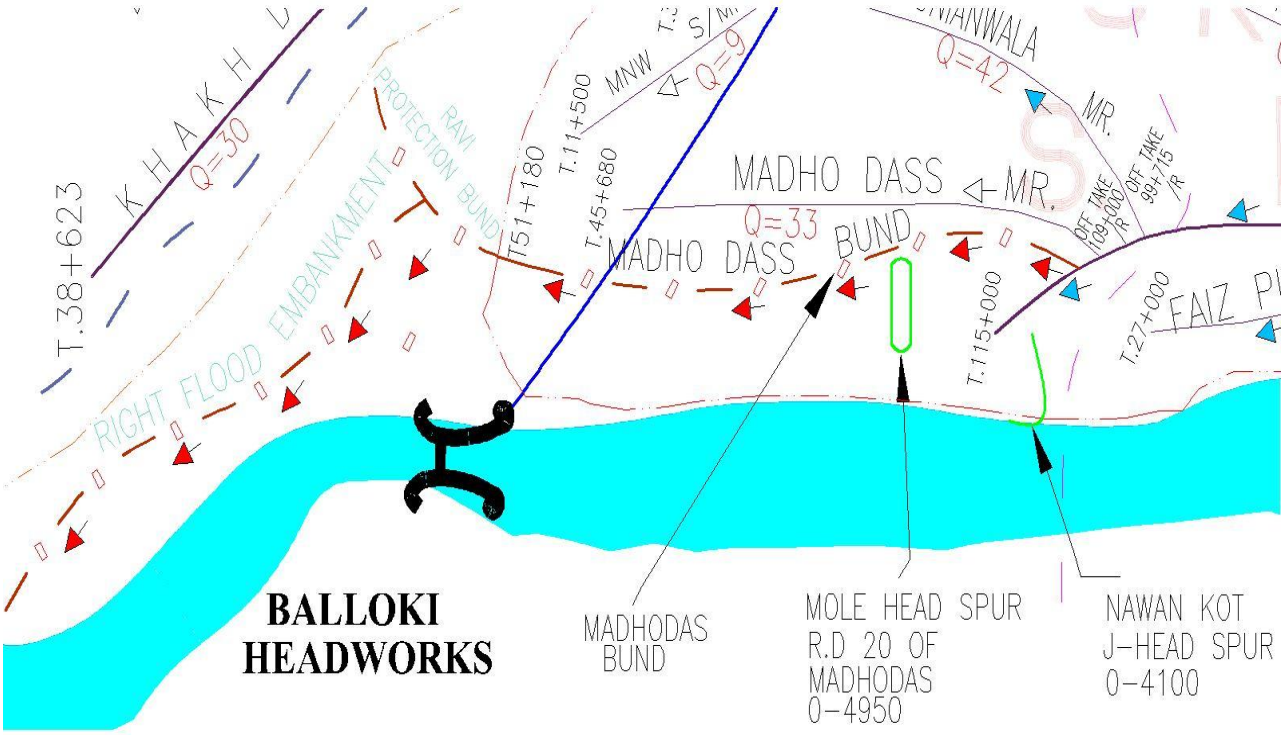
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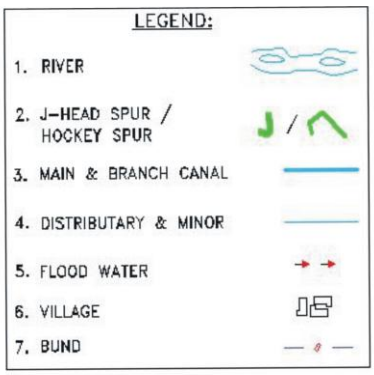
S.R	Name of Bunds / Embankments	H.F.L in 1988	Reach	Length in Miles	Top Width	Slope	Top R.L at Source	Top R.L at Tail
1	Madhdodass Bund RD 51+180	RD 47-48 = 649.00	0+000 - 51+180 weetting channel from RD 39+000 to RD 51+180	10.23	25	U/S 1:3 D/S 1:2	658.80	653.00
2	J-head Spur Nawan Kot near Mandi Faizabad	660.95	Shank = 2800 ft J-portion = 1300 ft	0.82	25	U/S 1:3 D/S 1:2	665.95	665.96
3	Mole Head Spur RD 17+630 / left of Madhdodass Bund	646.92	Shank = 4500 ft Pitching portion = 450 ft	0.99	25	U/S 1:3 D/S 1:3	651.92	651.92
4	Protection works opposite RD 121+000 of Syedwala Disty	-	Piching Portion = 2480 ft No. of solid stone stude = 6	0.49	-	-	612.00	612.00
5	J head Spur near Villiage Faridabad	607.24	Shank = 1630 ft Piching Portion = 1320 ft	0.59	20	U/S 1:3 D/S 1:2	612.24	612.24
6	J Head Spur near Village Kund Qasim	609	Shank = 2770 ft	0.55	25	U/S 1:2 D/S 1:2	614.00	614.00
7	Concavo Convex guide wall spur near village Kund Rahim shah	609	Shank = 2770 ft Curve Portion U/S =197 ft Curve Portion U/S =198 ft Straight Portion =300ft Piched Length = 3465	0.69	25	U/S 2:1 D/S 1.5:1	614.00	614.00
8	J Head Spur near old Syedwala Town	602.63	Shank = 700 ft	0.14	20	U/S 1:3 D/S 1:2	608.63	608.63
9	J Head Spur opposite Syedwala Town	602.63	Shank = 2380 ft	0.47	25	U/S 1:3 D/S 1:2	608.63	608.63

Page 1

2.2 LOCATION MAP

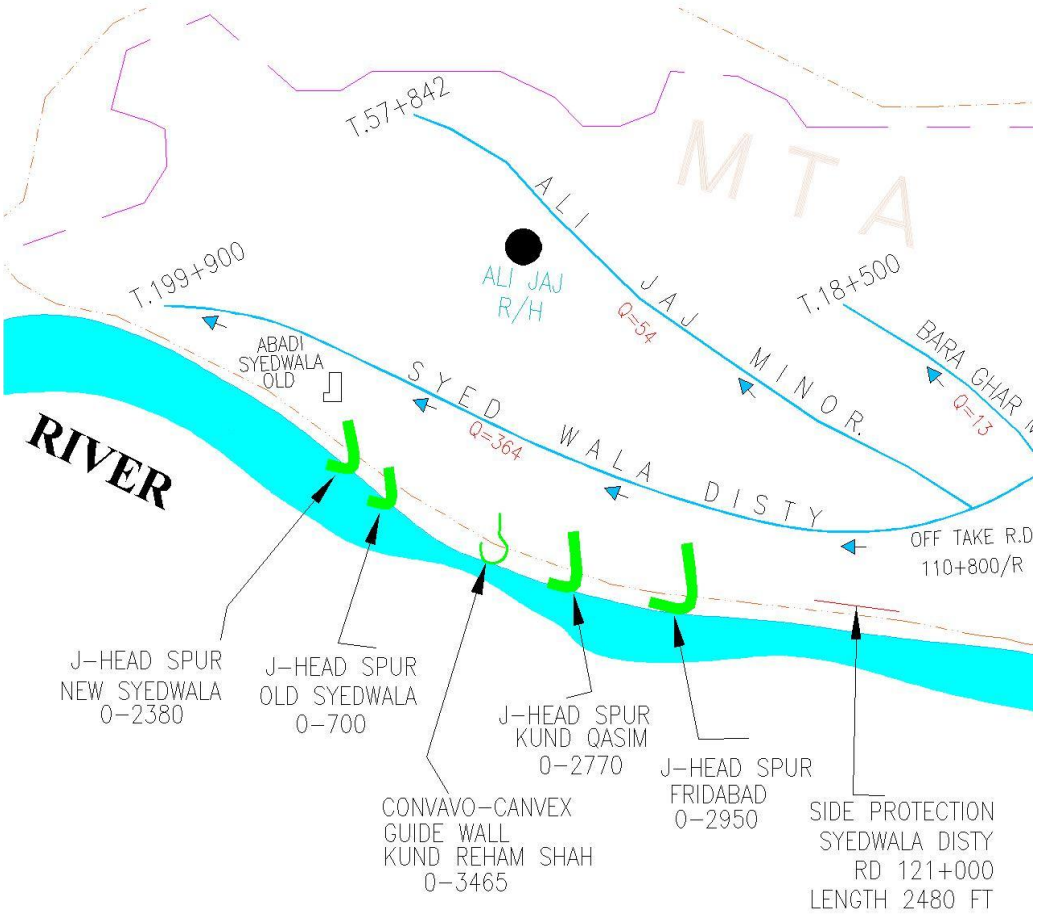
MADDODASS BUND, MOLE HEAD SPUR RD 17+630, J-HEAD SPUR NAWAN KOT





2.2 LOCATION MAP

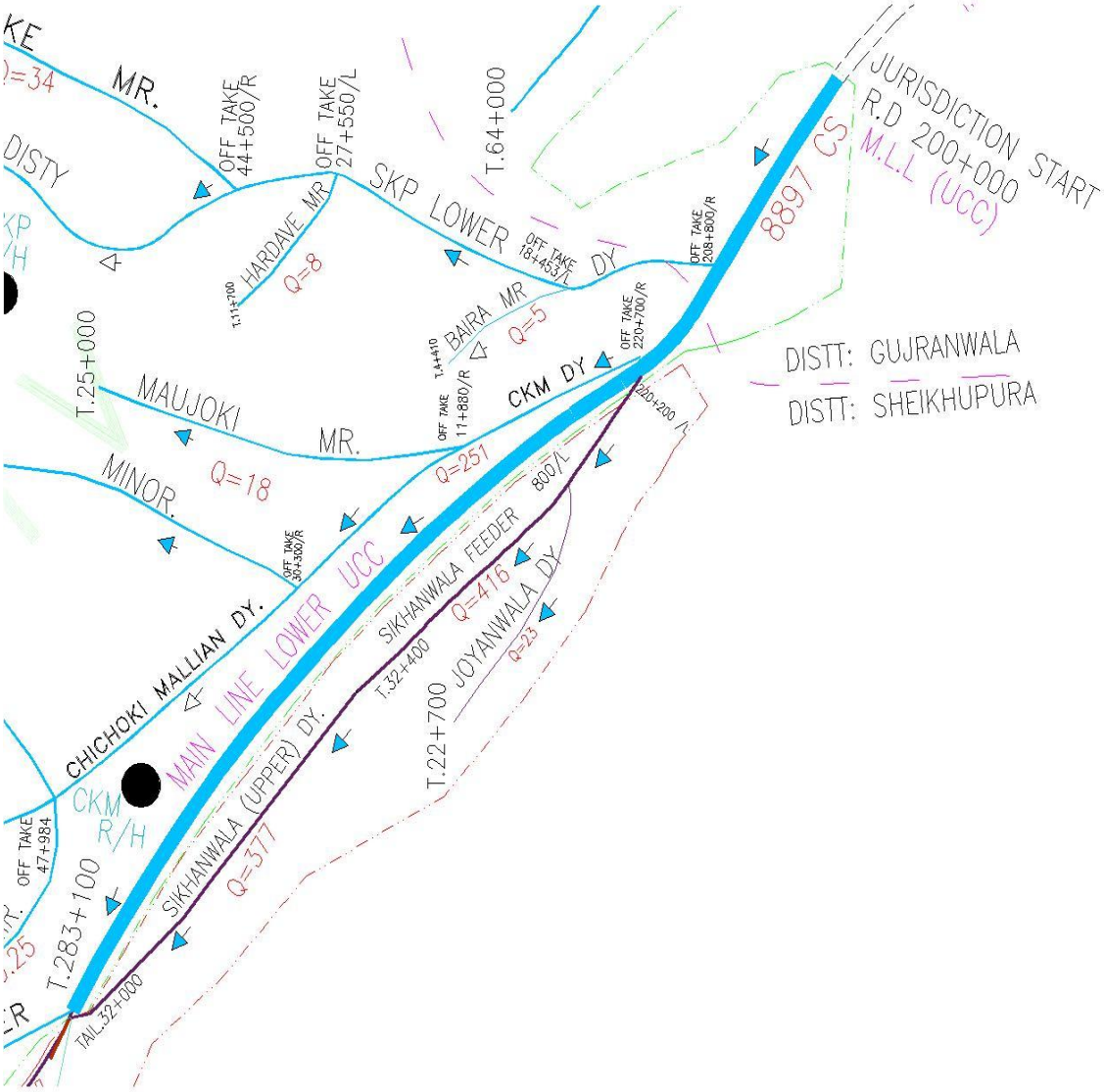
J-HEAD SPUR FARIDABAD, J-HEAD SPUR KUND QASIM, CONCAVO-CONVEX GUIDE WALL, KUND RAHIM SHAH, J-HEAD SPUR SYEDWALA OLD, J-HEAD SPUR SYEDWALA NEW AND SIDE PROTECTION RD 121+000 SYEDWALA DISTY





2.2 LOCATION MAP

MAIN LINE LOWER UCC RD 200+000 TO RD 283+100



Chapter - 3

BRIEF HISTORY OF PAST FLOOD EVENTS

In addition to the Irrigation network, Sheikhupura Division UCC is also responsible for the maintenance of River Training works along right side of Ravi River. Ravi River running parallel in the jurisdiction of this division is about 75 km length. Detail of Flood Embankments / River Training works is given in chapter.

Flood protection works were constructed by the Irrigation Department. During the Exceptional High Floods of 1988 & 1992, the entire river regime was changed and main River creek meandered towards right. Resultantly, it eroded wide spread fertile land and damaged nearby villages. The inhabitants lost their houses and fertile lands. From the past flood behavior and experiences, following River Training and Protection works were constructed along right bank of Ravi River in the jurisdiction of Sheikhupura Division UCC. Brief past flood history structure-wise is described below:-

A. <u>MADHODAAS BUND</u>:

The Madhodas bund is about 10 miles long and runs almost parallel to River Ravi at a varying distance of ½ to 1 mile from main creek along maddhodas minor. It starts from near village Ganeshpur and extends upto village Haftmadar and is tied up with the right flood embankments of balloki Headworks at RD 24. The design section of bund is as under:

Top width= 25’

Side Slope= 3:1 and 2:1 on river and country side.

This flood bund has been subjected to River action and breaches almost every high flood during the past years. This bund has remained under direct hit of floods during

the past years and breached at number of places during 1950, 1954, 1955, 1973, 1975 and 1976.

During 1988 the flood water spilling out on right side of River Ravi in lower reach, D/S of Deg Diversion channel bund was contained by Madodass bund. The flood water level was raising rapidly and a free board of bund against flood level was noted to be only 1'-2' at several places. As it has been experienced reach RD 37000 to 51180 (Old River Ravi protection bund) has remained vulnerable to breaches during super flood of 1988.

This flood bund plays a vital role for the safety of local infrastructure and important irrigation network e.g. Madhodas Minor, Munianwala Minor, Munianwala sub minor and local abadies. Due to super flood of 1988 this bund breached at 34 points and caused colossal damages to public and private properties. In anticipation of 2003 super flood during moon soon season 2023, a detail field survey of the said bund was done by field formation by Sikhanwala Sub Division and found the bund is in a deteriorated condition. Due to non-repairing of flood bund and no M&R work from past 6 years, huge Gharas and rain cuts were developed. The highest flood level of 1988 recorded is 655 at the source and 649.00 at the tail end. The top of bund along with other design parameters.

The flood season 2023 was in full swing and in order to cope with worst situation, it was inevitable to maintain the flood bund as per design parameters. Keeping in view the importance of bund and flood history, the worthy Chief Engineer Lahore and Superintending Engineer UCC inspected the Madhodaas Bund on 30-07-2023 and finalized the following proposal to raise the Flood Bund as per design parameters. The alignment of the bund has been proposed and shifted to river side slightly in reaches RD 39+000 to 51+180. The dowel of 6’ top has been provided at river side in reaches between RD 2+000 to 10+000 and 33+000 to 38+000, starting from edge of metal road with 2:1 slope, where metal road exists at site. The estimate was sanctioned by Competent Authority named as

“Raising/Maintaining Design Parameters of Flood Structures as Per Flood Levels of 1988 on Maddhodas Flood Bund Rd:0+000 To 51+180”.

The work has been completed at site as per the provision of estimate in accordance with Approved L-section Design Parameters. Now presently the condition of Madhodaas bund is quite satisfactory.

The maintenance of the flood structure during the **highest flood of 2025** played a vital role in **preventing a major disaster**, ensuring safety of surrounding areas and protection of key infrastructure.

Madhodass Flood Bund starts from RD 9+100 of Madhoddass Minor near Mathrapur Village. During the **flood of 2025**, floodwater overtopped the right bank of Maddhodas Minor at various upstream of the Maddhodas Flood Bund due to the absence of a proper protective bund along this reach. This resulted in serious threats to the canal system, adjoining agricultural lands, village abadies, and communication infrastructure.

In order to prevent recurrence of such incidents and to ensure adequate flood protection, it is essential to extend the Maddhodas Flood Bund by approximately 9,100 ft and tie it with RD 109+000 of Sikhanwala Distributary. This **extension** will provide a continuous defensive line against flood flows and safeguard the Maddhodas Minor, nearby settlements, and vital infrastructure from future flood damage.

B. J-HEAD SPUR NAWANKOT

The earthen shank was eroded on the D/S side due to generation of parallel flow in old River Creek during Flood 1999. Protection of slope was done with bamboo bushing, which proved successful. Construction of stud opposite village Chak Doger on left bank of Ravi River activated the old creek along earthen shank on D/S side during flood 2000 and further damaged the shank. Protection work was taken up under emergency and shank was protected. The creek on the D/S side was plugged at its mouth as per recommendations of the Expert Committee. Permanent solution of the

problem is construction of **Mole Head** Spur along earthen shank, prevailing scenario of site needs immediate implementation of proposal to protect thickly populated adjoining abadies of the villages and erosion of Agricultural Land. To fight against un-predictable River Morphology and aggression, the matter was referred to Irrigation Research Institute Lahore for carrying out model study and provision of permanent remedial measures to all Flood affected sites. A model study was conducted by IRI at Nandipur research station and construction of **Mole Head** spur was recommended for protection of Nawan Kot village and other infrastructure. The requisite estimate amounting to Rs 182.069 million has been sanctioned by the competent authority and work was awarded to the lowest bidder “Rana Traders”. The work is stopped due to land acquisition dispute. However, water level of river raised but no serious threat has been observed during flood season 2023.

During the **flood of 2025**, As the peak discharge approached, on 29-08-2025, the flood water entered from the U/S of J head spur Nawan Kot and the structure completely got surrounded by the flood water and the approach to the structure vanished. It exposed a large number of villages, abadies, and critical infrastructure of tehsil Nankana to flood damages.

Extension of J head Spur Nawan Kot to tie it with high edge is therefore imperative to provide a reliable safeguard against future flooding and to ensure the spur to be remain accessible for the staff and equipment.

C. J-HEAD SPUR KUND QASIM

The earthen shank of J-Head Spur Kund Qasim was eroded on the D/S side due to direct hit of Main creek of Ravi River during year 2005. This action was checked by providing stone studs and other flood fighting arrangements. Due to

change in pattern of flow, both sides have become river sides The shank of this spur was badly damaged during flood 2012. This damaged shank had been repaired and protected by providing stone pitching during 2013-14.

The **Kund Qasim area** suffered significant damages during the **Flood 2025** due to extreme hydrological conditions and structural vulnerabilities. Timely emergency response minimized the scale of disaster; however, permanent remedial measures are essential to prevent recurrence and to ensure protection of infrastructure and local communities.

During flood season 2025 this structure has been damage due to high flood situation after that the flood restoration works submitted to Competent Authority for approval purpose. The work award to the Contractor and completed before flood season 2026.

D. CONCAVO - CONVEX GUIDE WALL SPUR AND TIE BUND KUND REHAM SHAH.

During flood 2007, Ravi River main creek started drifting towards the village abadi of Kund Reham Shah. It eroded considerable strip of Agricultural land. This erosion was very aggressive at low supply. For providing protection against this action, various proposals were discussed with higher ups along with Principal Research Officer of Irrigation Research Institute, Lahore (PRO of IRI). The expert committee paid visit at site and construction of concavo-convex guide wall spur at affected site was finalized. After observing codal formalities under Para 2.89 of PWD code, the work stand completed at site in 2007. In recent past, even at low supply during Flood in 2008 and 2009, D/S curved part of guide wall became under sever threat of flow currents and resulted damage to pitching and apron. This aggressive situation was reported to higher ups. The expert committee comprising, Principal

Research Officer, IRI, Lahore, Superintending Engineers, Link and Upper Chenab Canal Circles, Executive Engineer, Chak Bandi and Sheikhupura Division UCC visited the site on 12-4-2009 for finalization / recommendation of the necessary protection measures to be adopted before the next flood season for protection of village abadies and flood works etc. As per expert committee recommendations / proposals, the estimates amounting to Rs. 2.548-Million- was sanctioned by the Chief Engineer, Irrigation Lahore Zone, Lahore. The work was got completed in June, 2010. During flood in 2010, River main creek again shifted its course and started hitting at tie bund between concavo- convex guide wall and Kund Qasim Spur and on D/S side of wall by developing swirling action. At low supply, this erosive action remained more aggressive. It caused serious damage on D/S of guide wall and school building.

The **Kund Reham Shah area** suffered significant damages during the **Flood 2025** due to extreme hydrological conditions and structural vulnerabilities. Timely emergency response minimized the scale of disaster; however, permanent remedial measures are essential to prevent recurrence and to ensure protection of infrastructure and local communities.

I) <u>CONCAVO - CONVEX GUIDE WALL SPUR</u>

- The damages were tackled through Flood Fighting etc by launching of Trees and making studs of Plastic and Gunny bags. District Administration, Nankana Sahib provided full co-operation and their help. Chief Engineer, Irrigation Lahore Zone, Lahore also paid visits to site and proposed remedial measures. The detail estimate for restoration was sanctioned by Chief Engineer, Irrigation Lahore Zone, Lahore. The work for restoration have been completed during 2011-2012.

- The guide wall of the Concavo-convex was rehabilitated in the year 2021 as per approved design parameters.
- During flood season 2023 apron of this structure has been damage in the length about 350 ft. The estimate for ‘’RESTORATION OF ERODED NOSE OF CONCAVE - O - CONVEX GUIDE WALL AT KUND REHAM SHAH ‘’ has been submitted for approval and execute the work in 2023.
- During flood season 2025 this structure has been damage due to high flood situation after that the flood restoration works submitted to Competent Authority for approval purpose. The work award to the Contractor and completed before flood season 2026.

II) <u>TIE BUND KUND REHIM SHAH.</u>

Tie bund was constructed in the year 2007 to protect the village abadies of Kund Rehim Shah located at river edge in between J-head spur Kund Qasim and concave-e-convex Guide wall spur. During flood 2011 even at low supply at D/S Balloke Head works, River drifted its main threat towards tie bund and the bund between RD 0+450 to 1+300 washed away. It also eroded about 20 No. houses of village abadi of Kund Rehim Shah.

Keeping in view above narrated critical position the work namely “Restoration of Tie Bund and concave-o-Convex Guide wall at Kund Reham Shah damaged during flood 2011 at Ravi River” was taken up under Para 2.89 of the PWD code during the month October 2011 as recommended and proposed by the expert committee. This work has been executed. The tie bund was again damaged during 2012 near junction with J-Head spur Kund Qasim, which has been repaired during 2013-14. This tie bund further has been protected by providing stone pitching on entire river side slope.

F. J-HEAD SPUR SYEDWALA.

This spur was constructed for protection of Old Syedwala Town. Apron of the spur have been damaged due to direct hit of flow of River, due to construction of bridge at River downstream. This structure has been dismantled, length upto 1500ft and transferred to highway Department

The work “Construction of 3 No. solid stone studs in front old Syedwala Town was completed during financial year 2010-11 which has played well against the river action.

Chapter – 4
Design Data, Historic peak flood data and previous five years flood data of Head Works / Barrages and or other control points

4.1 FLOOD LIMITS

Ravi River enters into Pakistan territory near Kot Naina District Narowal. There are 5 important hydraulic structures in reach from Kot Naina to Sidhnai barrage. The flood limits at different flow conditions from low flood to exceptional high flood is detail below at different structures.

Sr No.	Category of Flood	Jassar Old Bridge (in Cs)	Ravi Syphon at BRBD Link Canal (in Cs)	Shahdara Railway Bridge (in Cs)	Balloki Head Works (in Cs)	Sidhnai Barrage (in Cs)
1	**Low Flood**	Upto 50000	Upto 40000	Upto 40000	Upto 40000	Upto 40000
2	**Medium Flood**	50000 to 75000	40000 to 65000	40000 to 65000	40000 to 65000	40000 to 65000
3	**High Flood**	75000 to 100000	65000 to 90000	65000 to 90000	65000 to 90000	65000 to 90000
4	**Very High Flood**	100000 to 150000	90000 to 135000	90000 to 135000	90000 to 135000	90000 to 135000
5	**Exceptionally High Flood**	200000& Above	180000& Above	180000& Above	180000& Above	180000& Above
6	**Critical Gauge R.L**		722.00	698.50	644.50	478.00
7	**Zero R.L of gauge**	775.5	688.0	676.30	616.00	437.00
8	**Designed capacity**	275000	400000	250000	225000	175000

4.2 TIME LAGS OF FLOODS

Sr. No	RAVI RIVER REACH	DISTANCE IN MILES	TIME LAG IN HOURS
1	MADHUPUR TO JASSAR	96	8
2	JASSAR TO RAVI SYPHON	73	18
3	RAVI SYPHON TO SHAHDARA BRIDGE	24	8
4	SHAHDARA TO BALLOKI HEAD WORKS	63	24
5	BALLOKI HEAD WORKS TO SIDHNAI HEAD WORKS	198	78

4.3 HIGHEST FLOODS

Sr. No	Year	Discharge in Cs	
		SHAHDARA BRIDGE	BALLOKE HEAD WORKS
1	**21.09.1950**	**193000**	**243000**
2	**06.10.1955**	**527315**	**580324**
3	**11.08.1973**	**237380**	**291000**
4	**27.09.1988**	**326100**	**389000**
5	**29-08-2025**	**213440**	**204260**

Executive Engineer,
Sheikhupura Division UCC,
Sheikhupura

4.4 PEAK DISCHARGES

(Discharge in Cs.)

Maximum Recorded	Jassar	Ravi Syphon	Shahdara Railway Bridge	Balloki Head Works	Sidnahi Barrage
2017	37184	39853	36740	68145	-
2018	66645	37936	37587	68030	24157
2019	28040	37936	37200	53200	-
2020	11494	19124	19498	43450	-
2021	19500	34531	38407	63250	-
2022	48630	30553	29969	32435	-
2023	49680	43103	38060	75070	-
2024	37850	28660	28014	56075	-
2025	229700	215768	213440	204260	-

Executive Engineer,
Sheikhupura Division UCC,
Sheikhupura

Chapter – 5

FLOOD FIGHTING STRATEGY

The pre flood inspection of flood protection and river training works of Sheikhupura Division UCC will be carried out by the Departmental, Inspection Team during March, 2026.

PROPOSED CAMPS TO FIGHT BACK ANY EVENTUALITY

The detail of camps to be established by Sheikhupura Division UCC along with SOP is discussed below

S. NO	Description	Incharge of Camp	Location of Camp	Contact No:
1	CAMP No. 1	Bilal Asghar Sub Divisional Officer Sikhanwala	J-Head Spur near Village Nawan Kot	0308-7906687
2	CAMP No. 2	Bilal Asghar Sub Divisional Officer Sikhanwala	MADDODAS BUND RD 43+500	0308-7906687
3	CAMP No. 3	Nadeem Khawar Pasha Sub Divisional Officer Mangtanwala	AT KUND REHAM SHAH SPUR	0305-4808030
4	CAMP No. 4	Liaqat Ali Sub Divisional Officer Sheikhupura	AT RD 220+000 MAIN LINE LOWER (UCC)	0300-7761277

CAMP NO. 1

INCHARGE OF CAMP **BILAL ASGHAR**

Sub Divisional Officer, Sikhanwala alongwith his Sub Engineers will be in-charge at camp no 1 at J-Head Spur near Village Nawan kot, Nankana Sahib. He will camp at said structure and will keep close liaison with his Executive Engineer and District Administration, Nankana sahib. He will keep up-dating about all flood activities, in his area of responsibility. He will fix the sub camps of his Sub Engineers according to need and necessity of the site. Probable sub camp of Sub Engineer shall be at following vulnerable sites;-

Detail of Sub – Camps

S. No	Description	Incharge of Sub – Camp	Location of Sub – Camp	Contact No.	Area of Responsibility
1	Sub Camp – 1	Mr. Zaheer Qaiser Sub Engineer DDC Section	J-Head spur Nawan Kot	0301-4739476	• J-Haed Spur Nawan Kot

This sub camp site can be changed by the Sub Divisional Officer, Incharge according to flood situation. Incharge Sub Divisional Officer shall be responsible to ensure all requisite flood fighting check all the material at flood camps in his charge and he will maintain a register of all vulnerable sites / points along with road maps, major villages/ towns and addresses of all notable from whose volunteers shall be available to him. Further, he will work out requirement of machinery according to critical points and shall ensure addresses of Govt departments with contact No. and kind of machinery available with them. Further, he will prepare list of excavator and tractors available in his area of charge with address and contact No. of locals, so as same may be called upon on urgency. He shall be responsible for prompt delivery of flood related activities at main flood camp established at Executive Engineer Sheikhupura Division UCC Office and higher ups of the Department as well as District Administration. He will also submit proposals for any change be observed in his area for best interest in Govt and public.

CAMP NO: 2

INCHARGE OF CAMP **BILAL ASGHAR**

Sub Divisional Officer, Sikhanwala Sub Division UCC, alongwith his one Sub Engineers will be incharge of watching operation for Madhodass bund, Mole head spur. He will camp at Madhadass bund RD 43+500. He will keep close liaison with Executive Engineer and District Administration, Nankana Sahib for updating them regarding flood situation in his area of control. He will further establish Sub Camps of his Sub Engineers at following vulnerable points: -

Sr. No.	Description	Incharge of Sub – Camp	Location of Sub – Camp	Contact No.	Area of Responsibility
1	Sub Camp – 1	Mr. Zaheer Qaiser Sub Engineer DDC Section	Madhodaas Bund, Mole head spur RD 16+700 Madhodass Bund	0301-4739476	• RD 0+000 – 40+000 Madhodass bund and Mole Head Spur.
2	Sub Camp – 3	Mr. Zaheer Qaiser Sub Engineer Sikhanwala Section	Madhodass Bund RD 47+000	0301-4739476	RD 40+000 to 51+180 Madhodass bund

The camp sites can be liable to change by Sub Divisional Officer, Sikhanwala as deemed fit according to situation. He will further make arrangements as described in duties of in-charge of camp.

CAMP NO: 3

INCHARGE OF CAMP Mr. Nadeem Khawar Pasha

Sub Divisional Officer, Mangtanwala will camp at J-Head Spur Kund Reham Shah and will be responsible for the watching and protection of Canal System. Vulnerable sites like Kund Qasim and Kund Rahim Shah etc, especially the spurs at Faridabad and Syedwala Town shall also be watched by him. Sub Divisional Officer, Mangtanwala Sub Division will also be responsible for prompt communication of flood situation and substantial damages to all the concerned quarters. He will also keep liaison with Executive Engineer Sheikhupura and District Administration, Nankana Sahib. His 3 Sub Engineers, will be camping at following 3 Sub Camps:-

Sr. No.	Description	Incharge of Sub – Camp	Location of Sub – Camp	Contact No.	Area of Responsibility
1	Sub Camp – 1	Mr. Atta ullah Sub Engineer Bara Ghar Section	RD 101+000 to 121+000 Syedwala disty	0309-4245049	• Syedwala Disty RD 101+000 to 199+900 • Mangutaru Minor RD: 0+000 to Tail
2	Sub Camp – 2	Mr. Atta ullah Sub Engineer Moura Section	J-Head Spur Kund Qasim	0309-4245049	• J-Head spur Faridabad • J-head spur Kund Qasim • Concave-O-Convex guide wall Kund Reham Shah
3	Sub Camp – 3	Mian Younis Sub Engineer MTA section	J-Head spur Syedwala (New)	0305-5172069	• J-head spur Syedwala (New) • J-head spur Syedwala (Old) • Syedwala Disty RD: 101+000 to 199+900 tail

CAMP NO: 4

INCHARGE OF CAMP Mr. Liaqat Ali

Sub Divisional Officer, Sheikhupura Sub Division will be incharge of watching MLL form RD 200+000 to 283+000 and Off-Takes of MLL Sheikhupura Sub Division. He will camp at RD 220+000 Joyanwala. He will keep close liaison with Executive Engineer, Sheikhupura Division UCC. He will also watch the canal communication system.

GENERAL

All the Sub Divisional Officers, will keep a close liaison with the Executive Engineer, Sheikhupura Division UCC. They being responsible for respective Jurisdiction will take proper action to cope with the alarming situation. They will arrange communication of flood position. The flood gauges will be regularly recorded under their direct supervision for which the gauge reader will be employed on work charge basis as per requirement. The Sub Engineer will shift their camps alongwith their establishment, keeping in view the supply of channels in their respective sections.

Executive Engineer,
Sheikhupura Division UCC,
Sheikhupura

Chapter – 6

Flood Damages Restoration Works

1. **Detail of recent works for which PC-1s have been approved and estimates have also been sanctioned. Works are under execution and completed.**

S.No	Name	Cost	Physical progress	Remarks
1	Construction of Mole Head Spur for Protection of Nawan Kot Village and other Infrastructure	182.069 (M)	12%	Work stopped at site since 2016
2	Maintaining Design Parameters of Flood Structures as per Flood level of 1988 of Madhodass Flood Bund Rd 0+000 to 51+180	129.490	100 %	Work completed

Flood Damages Restoration Works 2025-26

S.No	Name	Cost	Physical progress	Remarks
1	RESTORATION OF J-HEAD SPUR OF KUND QASIM	140.945	20	Work in progress
2	RESTORATION OF CONCAVE-O-CONVEX GUIDE WALL AT KHND REHAM SHAH	17.942	100	Work in progress
3	Mole Head spur Nawan Kot at RD:17+630 of Madhdass Flood Bund	34.683	40	Work in progress

Executive Engineer
Sheikhupura Division UCC
Sheikhupura.

Chapter – 7

Flood Fighting Watching Arrangement

7.1 Pre-Flood Arrangement

1. A flood control center will be established in canal telegraph office Sheikhupura and responsible staff will be available round the clock. One base high range wireless set be installed at canal Telegraph Office, Sheikhupura by the Police Department. 3 Nos. mobile Motorola sets of 30-kilometer range will be provided for installing in the vehicles of Executive Engineer, Sheikhupura Division UCC, Sub Divisional Officer, Sikhanwala and Sub Divisional Officer, Mangtanwala to keep them vigilant all the time.

Three Nos. Mobile wirelesses set (hand set) shall be provided under acute emergency during very high flood to be used at different vulnerable points.

These arrangements should be made well in time by the Telecommunication of Police Department.

1. FLOOD WARNING SYSTEM

The flood warning gauges will be received from the following centers: -

- Maddho Pur (India)
- Jassar
- Ravi (Syphon)
- Shahdara
- Balloki Head Works

Police wireless control is responsible to collect these gauges 3 hourly in case of high flood and above and 6 hourly in case of low flood to medium flood. These gauges will be conveyed to Irrigation flood warning center at Sheikhupura Canal Office and will be supplied promptly to Executive Engineer, Sheikhupura.

LIST OF LOCAL CONTRACTORS FALLING IN BREACH AFFECTED AREA, HOLDING EARTH MOVING MACHINERY WHOSE SERVICES CAN BE AVAILED IN WAKE OF IMMEDIATE FLOOD EMERGENCY AND DETAIL OF STONE

Name of Govt. Contractor	Contact Number
Ch. Shafqat & Co	0300-8424228
Muhammad Arif Associates	0321-7991892
Ch: Muhammad Bashir	0300-7432434
A.M.S developers	0345-4808579

Detail of Stone

S#	Name of structure	Sanctioned Limit (Lac)	Available Qty	Balance / Deficient	Remarks
1	Mole Head Spur RD 20+000 of MDD Bund	1	0.267	0.433	
2	J-Head spur Nawan Kot	1.2	0.354	0.486	
3	J-Head spur Old Syedwala	0.5	0.0474	0.30262	
4	J-Head spur Syedwala Town	1		0.7	
5	J-Head spur Kund Qasim	1	0.378	0.322	
6	J-Head spur Faridabad	1		0.7	

Watching Arrangements

During rainy / monsoon season, the organization of Sheikhupura Division UCC has to be very vigilant throughout the monsoon season. Staff of the Division will be set on alert during day and night from 15th June to 15th September. Consequently, flood / watching camps will be established at vulnerable points.

7.2 WATCHING ESTABLISHMENT

Flood watching establishment will be employed as per limit of floods already fixed for various Magnitude of discharge in the river from 16-06-2026 to 30-09-2026 as per following: -

Watching Establishment Details

Sr. No	Structure Name	Length (Miles)	Flood Limits							
			Normal Flood Season		Low Flood		Medium/High Flood		Very High/ Exp. High Flood	
			Men	Shift	Men	Shift	Men	Shift	Men	Shift
			1 Person/ 2 mile (1 Shift)		1 Person/ mile (1 Shift)		2 Person/ mile (2 Shift)		5 Person/ mile (3 Shift)	
1	Madhodass Bund RD 51+180	10.23	5	1	10	1	20	2	50	3
2	J-Head spur NAWAN KOT RD 4100	0.82	0	1	1	1	2	2	5	3
3	Mole spur RD 4950 at RD 17+630 / L of MD Bund	0.99	0	1	1	1	2	2	5	3
4	J-Head spur at Faridabad RD 2950	0.59	0	1	1	1	2	2	3	3
5	J-Head spur at Syedwala RD 2350	0.47	0	1	1	1	2	2	3	3
6	RD 121 Syedwala Disty RD 700	0.14	0	1	0	1	0	2	1	3
7	J Head Spur Kund Qasim RD 2750	0.55	0	1	1	1	2	2	3	3
8	Concavo Convex guide wall spur near Kund Reham Shah RD 3450	0.69	0	1	1	1	2	2	3	3
	TOTAL :-	**14.48**	**5**		**16**		**32**		**219**	

NOTE:-

One mate per 12 Beldar

Chowkidar = 24 hours at every Camp

Executive Engineer,
Sheikhupura Division UCC
Sheikhupura.

7.3 ARRANGEMENT AT SENSITIVE SITES

(i) The normal strength for watching at sensitive sites along flood protection and River training works will be doubled during high flood / exceptionally high flood.

(ii) The establishment can be increased after consultation with Executive Engineer, Sheikhupura Division UCC / Superintending Engineer, Upper Chenab Canal Circle, Lahore in emergency & in accordance with site requirements.

The same establishment will be responsible for maintenance of flood bunds and Spurs Shank etc during flood season. It will arrange minor repairs to bank top, side slopes, removal of Sarkanda etc on shanks and on pitched part of spurs. Establishment will also be responsible for filling gharas / rain cuts etc as occurred due to rains during the monsoon season.

Established Camps Details							
Sr. No.	**Structure Name**	**Length (Miles)**	**Vulnerable sites**		**No. of Camps Established Except Vulnerable Points**		
					Normal Flood season/Low Flood	**Medium/High Flood**	**Very High/Exp. High Flood**
			Reach	**No. of Camps**	**15 Miles**	**7 Miles**	**5 Miles**
1	Madhodass Bund RD 51+180	10.23	**(37 to RD 40) (47 to RD 51+180)**	2	0	0	0
2	J-Head spur NAWAN KOT RD 4100	0.82	-	0	0	0	0
3	Mole spur RD 4950 at RD 17+630 / L of MD Bund	0.99	-	0	0	0	0
4	J-Head spur at Faridabad RD 2950	0.59	-	0	0	0	0
5	J-Head spur at Syedwala RD 2350	0.47	-	0	0	0	0
6	RD 121 Syedwala Disty RD 700	0.14	-	0	0	0	0
7	J Head Spur Kund Qasim RD 2750	0.55	RD 2750	1	0	0	0

8	Concavo Convex guide wall spur near Kund Reham Shah RD 3450	0.69	RD 3450	1			
Total				**4**	**0**	**0**	**0**

Executive Engineer,
Sheikhupura Division UCC,
Sheikhupura.

7.4 WATCHING MATERIAL.

(Minimum requirement of Flood Fighting Materials for Permanent Camp (15 miles)

Sr. No.	Items	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari/Tent	No	01	0	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	0	06	
3	Table	No	01	0	01	
4	Generator (2-3 KVA)	No	01	0	01	
5	Pedestal Fans	No	01	0	01	
6	Charpois	No	02	0	02	
7	Symbolic Jackets	No	50	0	50	
8	Polyethylene Sheet	Kg	100	0	100	
9	Bamboos (4" dia and 10 ft long)	No	100	0	100	
10	Water Cooler	No	01	0	01	

11	Portable Umbrella	No	02	0	02	
12	Life Jackets	No	05	0	05	
13	Utensils (10 person serving)	No	01	0	01	
14	14. Jute/Plastic bags	No	1000	0	1000	
15	Walkie Talkie Set	Sets	02	0	02	
16	16. Raincoats	No	10	0	10	
17	LED flood light	No	10	0	10	
18	Extension Cable (10 ft)	No	02	0	02	
19	Rechargeable torches	No	20	0	10	
20	Kassi	Kg	20	0	20	
21	Axes	No	20	0	20	
22	G.I. Buckets	No	05	0	50	
23	7/44 cable	Feet	500	0	500	
24	Sutli	Kg	02	0	02	
25	Sewing Needles	No	10	0	10	
26	Emergency Medical Kit	No	1	0	01	
27	Wire crates (3x3x3) (only at those camps near river action and where reserve stock exists)	No	100	0	100	

Minimum requirement of Flood Fighting Material for the Temporary Camp:
(7 or 5 miles during medium to exceptionally high flood to be outsourced)

Sr. No.	**Items**	**Unit**	**Approved Quantity for each camp**	**Remarks**
1	Shouldari / Tent	No	01	Outsourced
2	Walke Talkie Set	Sets	01	
3	Chairs	No	06	

4	Raincoats	No	10	
5	Table	No	01	
6	LED Flood light	No	10	
7	Generator (2-3KVA)	No	01	
8	Extension Cable (10 ft)	No	02	
9	Pedestal Fans	No	01	
10	Rechargeable torches	No	20	
11	Charpois	No	02	
12	Kassi	No	20	
13	Symbolic Jackets	No	50	
14	Axes	No	20	
15	Water Cooler	No	01	
16	G.I Buckets	No	05	
17	Portable umbrella	No	02	
18	7/44 cable	Feet	500	
19	Utensils (10 person serving)	No	01	
20	Sutli	Kg	02	
21	Jute/Plastic bags	No	500	
22	Sewing Needles	No	10	

7.4 Arrangement for Sounding and Probing

In case of any situation on flood protection and River training works, sounding and probing arrangement will be made.

7.5 Lighting Arrangement

Details given in the list of watching material at Sr. No 7.4 above.

7.7 Ration Arrangement

P.O.L facilities / arrangement will be made by the Irrigation Department for their vehicles.

7.8 P.O.L Arrangement for Vehicle

P.O.L facilities / arrangement will be made by the Irrigation Department for their vehicles.

7.9 Transportation

Transportation facilities will be provided by the Civil Authorities

7.10 Law and order

Law and order situation will be tackled by the Civil Administration with the help of Police Department.

7.11 Medical arrangement for Labour

Health Department should be responsible for mobilizing their sources for carrying out necessary operation for providing medical facilities to the labour.

7.12 Liaison with other Department

All the flood protection and river training works are required to be inspected during the month of May so as to identify weak points and if necessary after repairing such sites, the certificate regarding hydraulic fitness of bunds is to be submitted. The Flood embankments are inspected by a Committee constituted by the Secretary Irrigation Department in May every year. Fitness of bunds is ensured before the flood season, keeping in view the priorities are fixed according to resources.

The Executive Engineer, Sheikhupura Division UCC, Sheikhupura to perform following functions within his administrative jurisdiction: -

1. Joint inspection of Flood protection infrastructure with District Administration.

2. Collection and sharing of information on discharge of water in Ravi as well as Nullah, with the Military Authorities as well as District Administration on daily basis.

3. Collection of information on discharge of water, from monitoring check points on Nulah as well as control centre at Jassar, Shahdara & Balloki.

4. Improvement of existing instruction / gauges used for determination of water discharge (Cs) in Ravi and Nullahs.

5. Development of more effective early warning system.

   Liaison with flood forecasting centre Lahore, for collection of flood related information.

6. Initiation of criminal proceeding against elements involved in will full breach in flood protection arrangements on any canal, with consent of competent authority.

7.13 Role of the Army

173-Engineer Regiment Lahore will perform activities to fight flood emergency during flood season.

7.14 Duties of Telephone Attendant

The duties of telephone attendant for appraising the Department / Civil Administration about the flood situation during the rain / flood season i.e. 16 June to 15 September.

7.15 Wireless Arrangements

Wireless system / arrangement will be made for the vehicles under use of Officers of Sheikhupura Division UCC during the period of 16 June to 15 September.

Executive Engineer,
Sheikhupura Division UCC,
Sheikhupura.

CHAPTER-8

Detail of Encroachment

There is no encroachment on flood protection works and river training works in the jurisdiction of Sheikhupura Division UCC Sheikhupura which may hinder the transportation during any flood emergency.

Total No. of Encroachment	Removed	Balance	Action to be Taken
Nil	**-**	**-**	**-**

Executive Engineer,
Sheikhupura Division UCC,
Sheikhupura.

Chapter-9

Duty Roster / Flood fighting Program

1-Duty Roster for main Flood control center Telegraph office at Sheikhupura.

S#	Shift	Duty staff	Time
1	General shift	Muzafar ul Deen Head Signaler	8.0 AM to 3.0 PM
2	Shift No. 1	Zahid Iqbal Signaler	3.0PM to 10.0 PM
3	Shift No. 2	Saveera Kazmi	10.0PM to 8.0 AM

Staff of Sheikhupura Division UCC Sheikhupura, looking after flood protection/ River training works and canal network falling in the jurisdiction of Sheikhupura Division UCC, has to be very vigilant throughout the monsoon season and set on alert during day and night from 16 June up to 15 September. Since the flood watching camps are to be established with the onset of monsoon season at vulnerable points with adequate materials and arrangements to cope with any flood/rain emergency. The concerned Sub Divisional officers are responsible for reporting about any mishaps to the Executive Engineer, Superintending Engineer, Chief Engineer and Secretary Irrigation and Power. It is also the duty of Sub Divisional officer to deliver written messages well in time, to the District Administration concerned about the flood/ weather forecast, flood situation and any other mishaps.

S.NO	Description	Incharge of Camp	Location of Camp	Contact No:
1	CAMP No. 1	Bilal Asghar Sub Divisional Officer Sikhanwala	J-Head Spur near Village Nawan Kot	0308-7906687
2	CAMP No. 2	Bilal Asghar Sub Divisional Officer Sikhanwala	MADDODAS BUND RD 43+500	0308-7906687
3	CAMP No. 3	Nadeem Khawar Pasha Sub Divisional Officer Mangtanwala	AT KUND REHAM SHAH SPUR	0305-4808030
4	CAMP No. 4	Liaqat Ali Sub Divisional Officer Sheikhupura	AT RD: 220+000 MAIN LINE LOWER (UCC)	0332-8708145

Additional daily labour will be employed as and when necessary according to requirement. Sub Engineers will assist the Sub Divisional Officers at their area of responsibility mentioned above.

An additional strength of nearly 300 voluntary labour is required to be made available by the concerned assistant Commissioner in case of emergency on each bund / river training works.

These labours will be arranged from adjoining cities, town, villages & abadies. One Assistant Sub Inspector of Police with four Constables are required to be made available for arranging voluntary labours on above mentioned sites and to assist in watching operation as and when required. Sub Divisional Officers Sheikhupura, Sikhanwala, & Mangtanwala will maintain close liaison with Civil Administration District Sheikhupura & Nankana Sahib and keep them informed about the rain / flood position on bunds / spurs and channels and ask them for voluntary labour as and when required. They will also make arrangement for the stores required at comp sites.

Sub Divisional Officer, will also inform the Civil Administration for any flood / rain emergency and damages. Civil administration and revenue field staff will be required for facilitating evacuation of the area likely to be submerged due to spillage of River Ravi.

Similarly, health and livestock and Dairy Development Department will also mobilize their resources for carrying out necessary operation for the health hazard likely to be created by the rains / flood for human and livestock. Food Department will be responsible to cater for food requirement of flood / rain affected people. Police and Revenue staff will coordinate the staff of Sheikhupura Division UCC, for the purpose of timely evacuation of the public.

Communication & Works Department (Highways Division Sheikhupura & Nankana Sahib) will also be required to control over the bridges and other road

network well before the set of monsoon season to provide free without interruption, speedy disposal of storm / flood eater.

WAPDA staff will also be required to be very vigilant in case of floods / rains to take care against accidents and break downs in the affected areas.

Agriculture will be responsible to provide dozers and other heavy Machinery.

Executive Engineer
Sheikhupura Division UCC
Sheikhupura

Chapter – 10
Emergency Telephone Nos.

S.No:	NAME OFOFFICER/OFFICE	OFFICE	RESIDENCE
DISTRICT GOVERNMENT SHEIKHUPURA			
1	District Coordination Officer, Sheikhupura	056-9200150-51	056-9200153
2	District Police Officer, Sheikhupura	056-9200104	056-9200105
3	D.D.O. Assistant Commissioner Ferozwala	042-7930777	
4	D.D.O. Sheikhupura	056-9200165	0333-5218940
5	ADC Sheikhupura	056-9200163	056-9200189
6	District Head Quarter Hospital, Sheikhupura	056-9200234	
7	Medical Superintendent, DHQ Sheikhupura	056-9200231	
8	Executive Engineer, Public Health Sheikhupura	056-3793938	0300-8405538
9	Executive Engineer, Highway Sheikhupura	056-9200058	056-9200192
10	Executive Engineer, Wapda Sheikhupura	056-9200244	
11	Executive Engineer, Building Sheikhupura	056-9200061	
12	Sub Divisional Officer, Sikhanwala (Flood Officer)	0305-6123892	
13	Wireless Control, Sheikhupura	056-9200110	15
DISTRICT GOVERNMENT NANKANA SAHIB			
14	District Coordination Officer, Nankana Sahib	056-2877117	056-9201011
15	District Police Officer, Nankana Sahib	056-2877101	
16	D.O. (Rev)Nankana Sahib	056-2875582	
17	D.D.O. (Rev)Nankana Sahib	056-2877849	
18	District Head Quarter Hospital, Nankana Sahib	056-2876110	
21	Medical Superintendent, DHQ Nankana Sahib	056-2875110	
23	Wireless Control, Nankana Sahib	056-2877114	
24	Executive Engineer, Public Health Nankana Sahib	056-2876747	
25	Executive Engineer, Wapda Nankana Sahib	056-3023507	
26	Executive Engineer, Building Nankana Sahib	056-2877022	

IRRIGATION DEPARTMENT			
27	Secretary Irrigation Department	042-99212117-18 Fax No.042-99212116	042-99200954
28	Director Flood / Secretary Flood Commission Lahore	042-99231614	042-36653943
29	Chief Engineer, Irrigation Lahore Zone, Lahore	042-99212085-86 Fax No.042-99212084	042-35182339
30	Chief Engineer, D & F Zone, Lahore	042-99230602 Fax_042-35862081	0300-4877257
31	Superintending Engineer, Upper Chenab Canal Circle, Lahore	042-99250333	
32	Executive Engineer, Sheikhupura Division, UCC	056-9200253	056-9200252
33	Flood Warning Centre, Irrigation Deptt; Sheikhupura	056-9200252	
34	Flood warning centre, Lahore	042-7572091	
35	Sub Divisional Officer, Sikhanwala Sub Division, UCC	0305-6123892	0305-6123892
36	Sub Divisional Officer, Mangtanwala Sub Division, UCC	0300-8313930	0300-8313930
37	Sub Divisional Officer, Sheikhupura Sub Division, UCC	0300-7761277	0300-7761277

Executive Engineer
Sheikhupura Division UCC
Sheikhupura

Chapter – 11
Standard operating procedure (SOP) for breaching sections.

11.1 HISTORY OF THE BREACHING SECTION

The reach of Madhodass bund, as it has been experienced from RD 32+000 to RD 51+180 (Old Ravi River Protection Bund) has remained vulnerable to breaching during supper flood in 1988. Breaching section has been approved by the Federal Flood Commission at RD 47+500 of Madhodass Bund.

STRATEGY FOR ACTIVATION

The activation of breaching section is, however, under the charge of **Executive Engineer Balloki Head Works**. They will operate breaching section in acute emergency after consultation with Military and Civil Authorities in addition to concerned Chief Engineer of Irrigation Department.

11.2 Location, Design, Quantity and Variety of the explosive required for detonation.

Not Related to Sheikhupura Division UCC.

11.3 Arrangement of Explosives and security o explosive stores.

Not Related to Sheikhupura Division UCC.

11.4 List of security staff alongwith detail of their training etc.

Not Related to Sheikhupura Division UCC.

11.5 Detail of Mechanical means as a stand by arrangement in case of detonation failure.

Not Related to Sheikhupura Division UCC.

11.6 Duty Roster in case of critical situation.

Not Related to Sheikhupura Division UCC.

11.7 Breaching committee with their action plan.

Not Related to Sheikhupura Division UCC.

11.8 List of the village likely to be inundated in case of breach.

There is only one breaching section at RD: 47+500 of Madhodass Bund. It is maintained and operated by **Balloki Headworks Division**. However, in case of operation of breaching section under emergency. The following main villages shall be affected: -

"Qila Omar Singh, Basadarpur, Kotosinghwala, Pinjnawala, Karrianwala, Haftmadar, Khakh, Chandpur, Masoo, Dodhian, Goraya".

11.9 Announcement and detail of evacuation arrangements.

Not Related to Sheikhupura Division UCC.

11.10 Details of coordination with Civil / Army Authorities.

Not Related to Sheikhupura Division UCC.

11.11 Parallel Communication arrangements.

Not Related to Sheikhupura Division UCC.

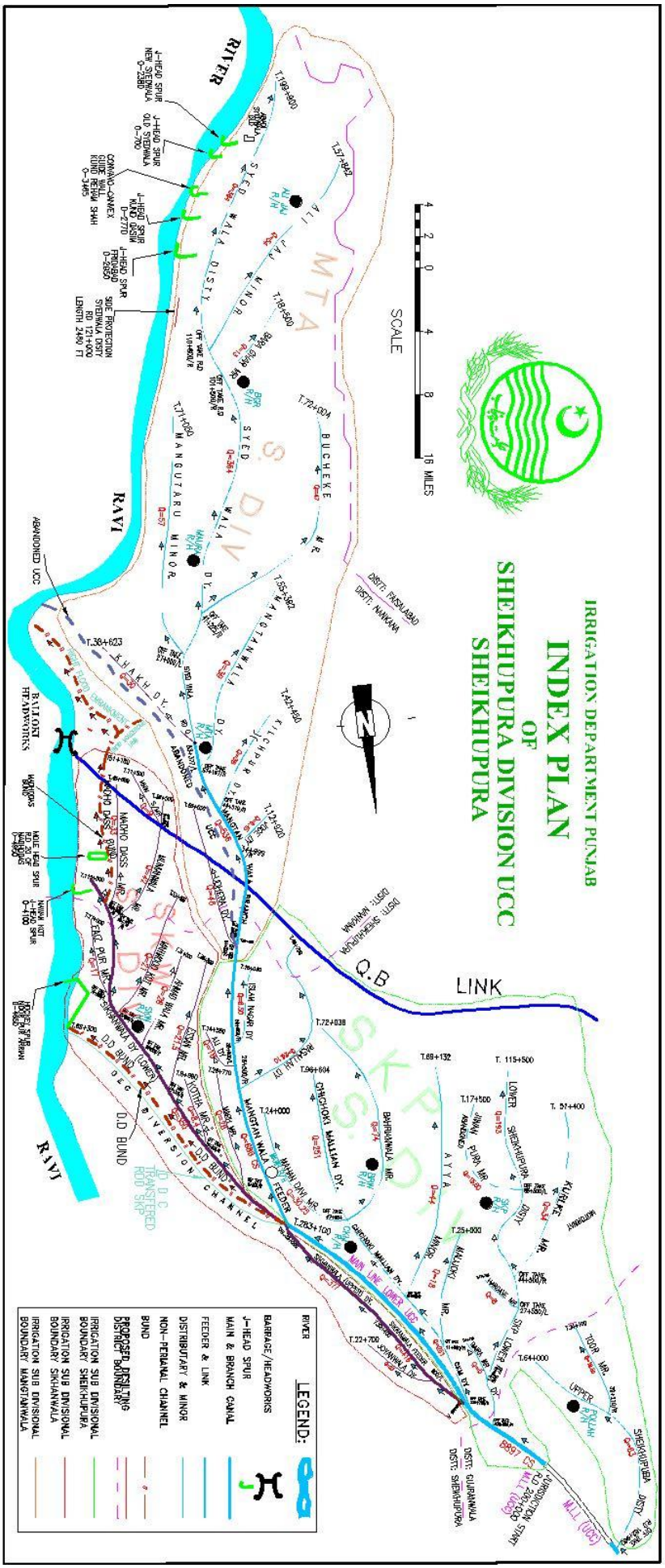
11.12 Index Plan

Index plan of the Sheikhupura Division UCC is attached.

Superintending Engineer,
Upper Chenab Canal Circle,
Lahore

Executive Engineer
Sheikhupura Division UCC
Sheikhupura.

Chief Engineer
Irrigation Lahore Zone,
Lahore


IRRIGATION DEPARTMENT PUNJAB
INDEX PLAN
OF
SHEIKHUPURA DIVISION UCC
SHEIKHUPURA
SCALE
4 2 0 4 8 16 MILES
N
RIVER RAVI
RAVI
Q.B LINK
D.D BUND
LEGEND:
RIVER
BARRAGE/HEADWORKS
J-HEAD SPUR
MAIN & BRANCH CANAL
FEEDER & LINK
DISTRIBUTARY & MINOR
NON-PERMANAL CHANNEL
BUND
PROPOSED RESETTING DISTRICT BOUNDARY
IRRIGATION SUB DIVISIONAL BOUNDARY SHEIKHUPURA
IRRIGATION SUB DIVISIONAL BOUNDARY SIKHANWALA
IRRIGATION SUB DIVISIONAL BOUNDARY MANGTANWALA

PART – B

Chapter – 12
Vulnerable sites on flood bund/ structures

12.1 Apprehended breaches in flood bunds / structures
Detail given as under: -

1. Maddhodass Bund reaches from RD 37+000to RD 40+000.

2. Maddhodass Bund reaches from RD 47+000 to RD 51+180.

3. J-Head Spur at village Kund Qasim

4. Concavo – convex guide wall with Tie bund Kund Reham Shah

12.2 Operation of Breaching Section

Breaching section exist in UCC Division at RD 47000 to 48+000 of Madho Dass bund but Balloki Division control / operate this Breaching section

12.3 Breaches due to rising of flood water, deterioration of flood bunds etc.

Not relates.

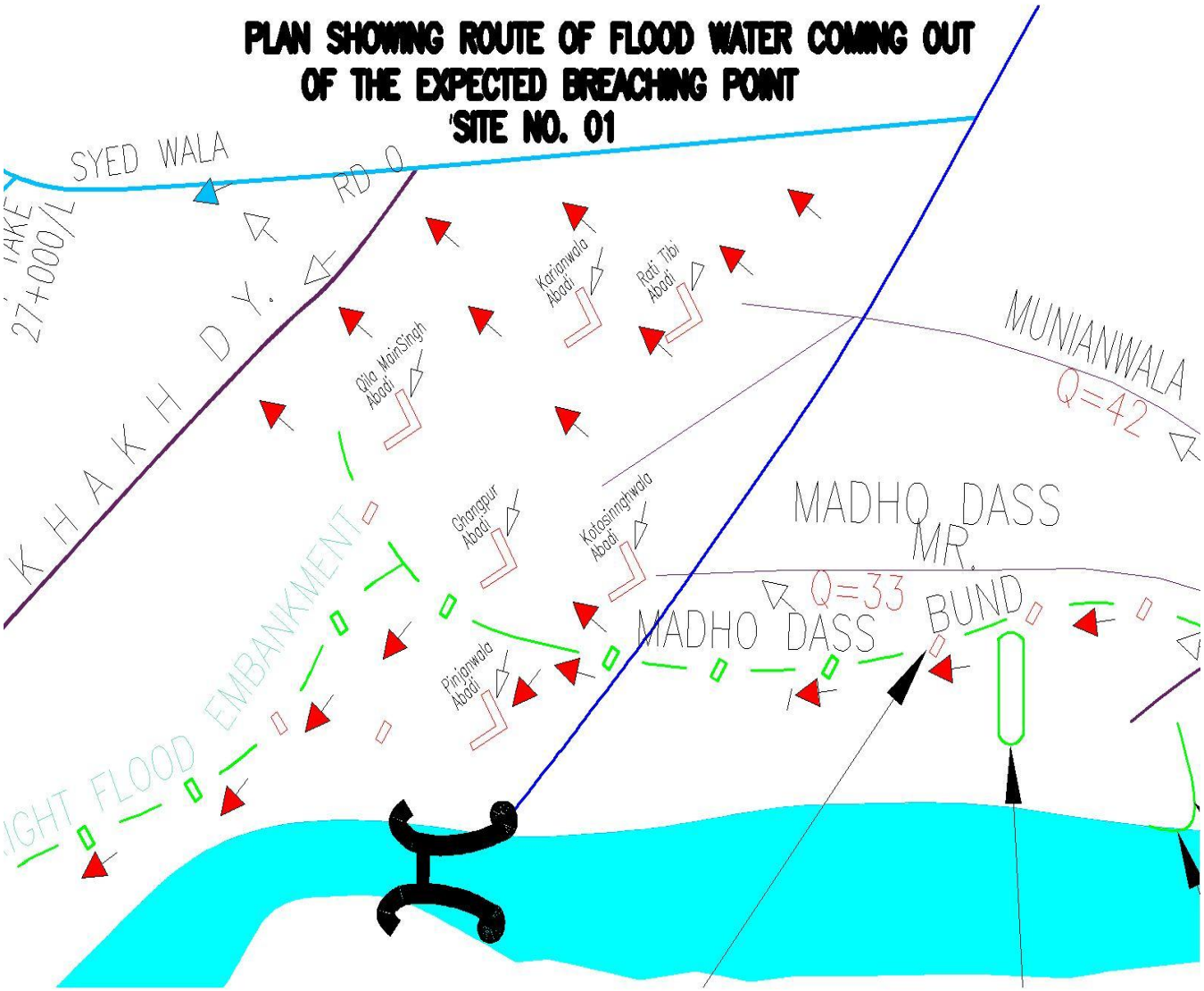
Executive Engineer
Sheikhupura Division UCC
Sheikhupura.

Chapter – 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

SITE NO.1 Maddhodass Bund reach from RD 37+000 to RD 40+000.

13.1 PLAN SHOWING ROUTE OF FLOOD WATER COMING OUT OF THE EXPECTED BREACHING POINT SUPPORTED WITH LEVELS



Maddhodass Bund reach from RD 37+000 to RD 40+000.

During super flood in 1988 the spill of Maddhodass Bund was breached in between RD 37+000 to 40+000 due to which the Irrigation and Road Network was damaged. The Abadi of adjoining Villages was also affected and the area was in undated.

13.2 Detail of village abadies likely to be affected and this should also be shown on the plan.

Sr#	Name of Village	Abadies	Tehsil
1	Kotosinghwala	4100 Persons	Nankana Sahib
2	Ghangapur	4960 Persons	Nankana Sahib
3	Pinjanawala	2500 Persons	Nankana Sahib
4	Karianwala	2764 Persons	Nankana Sahib
5	Rati Tibi	1646 Persons	Nankana Sahib
6	Kila Main singh	2865 Persons	Nankana Sahib
7	Biharipur	4230 Persons	Nankana Sahib

13.3 Strategy and action taken be explained in detail

The main Flood camp will be established at RD 43+500 Maddhodass Bund under the supervision of Sub Divisional Officer, Sikhanwala Sub Division.

Sub Camp will be established at RD 0+000 TO 30+000 under the charge of Sub Engineer, CKM Section for monitoring the flood situation and to make the protective measures against the flood. Similarly, sub camp No 2 will be established at RD 37+000 under the charge of sub engineer DDC Section. Third sub camp will be established by Sub Engineer SKW section at RD 47+000 of Madhodaas bund and will be responsible to look after the entire reach between RD 40+000 to 51+180.

13.3.1 Arrangements

To control over critical situation if arises during flood 2026, all arrangements as providing flood fighting material, watching establishment shall be made available from available resources.

13.3.2 Establishment of flood fighting camps

Flood watching establishment will be employed as per limit of floods already fixed for various Magnitude of discharge in the river from 16-06-2026 to 30-09-2026 as already mentioned in chapter 7 section 7.2.

13.3.3 Duties of officer / Officials and Detail of sub – Camp

Sr. No	Description	In-charge of Sub-Camp	Location of Sub-Camp	Contact No.	Area of Responsibility
1	Sub Camp	Mr Mr. Zaheer Qaiser Sub Engineer DDC Section along with watching establishment.	Maddodass Minor RD 37000	0301-4739476	RD 31+000 to 40+000 Maddodass Bund

Duties

1. **Sub Divisional Officer**

   Sub Divisional Officer, will keep close liaison with the Executive Engineer, Sheikhupura and District Administration Sheikhupura. He will keep updating about the flood activities in his area of responsibility. He will be responsible to communicate the gauges as well as other data regarding flood to higher ups. He will also be responsible to arrange the fighting through available recourse against flood.

2. **Sub Engineer**

   Sub Engineer will assist Sub Divisional Officer and will remain present at Camp round the clock. He will also supervise the River Training work by watching establishment, and taking remedial measures in the area of responsibility.

13.3.4 Departmental machinery available.

Not Available.

13.3.5 Machinery available from private source.

Machinery will be arranged if required form private source.

13.3.6 Flood Fighting Material required

To control over critical situation if arises during flood in 2026, following material will be available at main camp. The material required during emergency at reach of sub camp shall be arranged from the main camp.

13.3.7 Flood Fighting material available

Sr. No.	Items	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari/Tent	No	01	0	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	0	06	
3	Table	No	01	0	01	
4	Generator (2-3 KVA)	No	01	0	01	
5	Pedestal Fans	No	01	0	01	
6	Charpois	No	02	0	02	
7	Symbolic Jackets	No	50	0	50	
8	Polyethylene Sheet	Kg	100	0	100	
9	Bamboos (4" dia and 10 ft long)	No	100	0	100	
10	Water Cooler	No	01	0	01	
11	Portable Umbrella	No	02	0	02	
12	Life Jackets	No	05	0	05	
13	Utensils (10 person serving)	No	01	0	01	
14	14. Jute/Plastic bags	No	1000	0	1000	
15	Walkie Talkie Set	Sets	02	0	02	
16	16. Raincoats	No	10	0	10	
17	LED flood light	No	10	0	10	
18	Extension Cable (10 ft)	No	02	0	02	
19	Rechargeable torches	No	20	0	10	
20	Kassi	Kg	20	0	20	
21	Axes	No	20	0	20	
22	G.I. Buckets	No	05	0	50	

23	7/44 cable	Feet	500	0	500	
24	Sutli	Kg	02	0	02	
25	Sewing Needles	No	10	0	10	
26	Emergency Medical Kit	No	1	0	01	
27	Wire crates (3x3x3) (only at those camps near river action and where reserve stock exists)	No	100	0	100	

13.4 Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network.

On breaching of River Training / Flood Protection Works in the reach of Sub camp No. 3 the following Irrigation and roads networks shall be affected.

- **Main Irrigation Net work**
  - Khakh disty
  - Mangutaru minor
  - Syedwala Disty
  - Madhodass Minor
- **Main Road Network**
  - Mandi Faizabad – Sheikhupura Road
  - Lahore – Jahranwala Raod

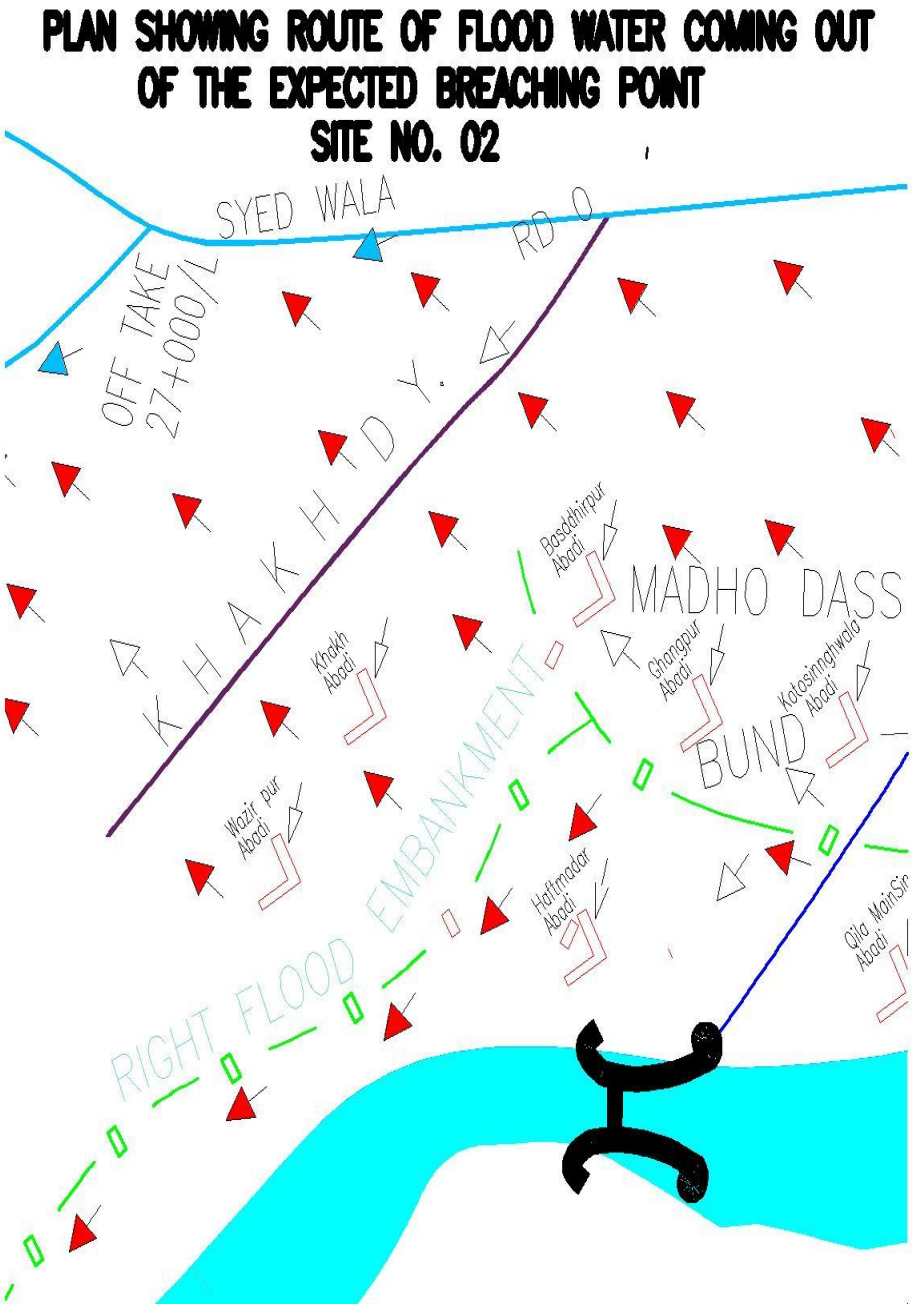
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Chapter – 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

SITE NO. 2 <u>Maddhodass Bund reach from RD 47+000 to RD 51+180.</u>

13.1 PLAN SHOWING ROUTE OF FLOOD WATER COMING OUT OF THE EXPECTED BREACHING POINT SUPPORTED WITH LEVELS



Maddhodass Bund reach from RD 47+000 to RD 51+180.

During super flood in 1988 the spill of Maddhodass Bund was breached in between RD 48+000 to 49+000 due to which the Irrigation and Road Network was damaged. The Abadi of adjoining Villages was also affected and the area was in undated.

13.2 Detail of village abadies likely to be affected and this should also be shown on the plan.

Sr#	Name of Village	Abadies	Tehsil
1	Basidhirpur	4960 Persons	Nankana Sahib
2	Haftmaddar	2180 Persons	Nankana Sahib
3	Khakh	1400 Persons	Nankana Sahib
4	Wazirpur	1670 Persons	Nankana Sahib
5	Gangapur	1350 Persons	Nankana Sahib

13.3 Strategy and action taken be explained in detail

The main Flood camp will be established at RD 43+500 Maddhodass Bund under the supervision of Sub Divisional Officer, Sikhanwala Sub Division. Similarly, sub camp No 2 will be established at RD 37+000 under the charge of sub engineer DDC Section. Third sub camp will be established by Sub Engineer SKW section at RD 47+000 of Madhodaas bund and will be responsible to look after the entire reach between RD 40+000 to 51+180.

13.3.1 Arrangements

To control over critical situation if arises during flood 2026, all arrangements as providing flood fighting material, watching establishment shall be made available from available resources.

13.3.2 Establishment of flood fighting camps

Flood watching establishment will be employed as per limit of floods already fixed for various Magnitude of discharge in the river from 16-06-2026 to 30-09-2026 as already mentioned in chapter 7 section 7.2.

13.3.3 Duties of officer / Officials and

Detail of sub – Camp.

Sr. No	Description	In-charge of Sub-Camp	Location of Sub- Camp	Contact No.	Area of Responsibility
1	Sub Camp	Mr Zaheer Qaisar Sub Engineer SKW Section along with watching establishment.	Maddodass Minor RD 47000	0301-4739476	RD 40+000 to 51+180 Maddodass Bund

Duties

3. **Sub Divisional Officer**

   Sub Divisional Officer, will keep close liaison with the Executive Engineer, Sheikhupura and District Administration Sheikhupura. He will keep updating about the flood activities in his area of responsibility. He will be responsible to communicate the gauges as well as other data regarding flood to higher ups. He will also be responsible to arrange the fighting through available recourse against flood.

4. **Sub Engineer.**

   Sub Engineer will assist Sub Divisional Officer and he will remain present at camp round the clock. He will also supervise the River Training work by watching establishment, and taking remedial measures in the area of responsibility.

13.3.4 Departmental machinery (available)

Not Available.

13.3.5 Machinery available from private source.

Machinery will be arranged if required from private source.

13.3.6 Flood Fighting Material (required)

To control over critical situation if arises during flood 2023, following material will be available at main camp. The material required during emergency at reach of sub camp shall be arranged from the main camp.

13.3.7 Flood Fighting material available

Sr. No.	Items	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari/Tent	No	01	0	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	0	06	
3	Table	No	01	0	01	
4	Generator (2-3 KVA)	No	01	0	01	
5	Pedestal Fans	No	01	0	01	
6	Charpois	No	02	0	02	
7	Symbolic Jackets	No	50	0	50	
8	Polyethylene Sheet	Kg	100	0	100	
9	Bamboos (4" dia and 10 ft long)	No	100	0	100	
10	Water Cooler	No	01	0	01	
11	Portable Umbrella	No	02	0	02	
12	Life Jackets	No	05	0	05	
13	Utensils (10 person serving)	No	01	0	01	
14	14. Jute/Plastic bags	No	1000	0	1000	
15	Walkie Talkie Set	Sets	02	0	02	
16	16. Raincoats	No	10	0	10	
17	LED flood light	No	10	0	10	
18	Extension Cable (10 ft)	No	02	0	02	
19	Rechargeable torches	No	20	0	10	
20	Kassi	Kg	20	0	20	
21	Axes	No	20	0	20	
22	G.I. Buckets	No	05	0	50	

23	7/44 cable	Feet	500	0	500	
24	Sutli	Kg	02	0	02	
25	Sewing Needles	No	10	0	10	
26	Emergency Medical Kit	No	1	0	01	
27	Wire crates (3x3x3) (only at those camps near river action and where reserve stock exists)	No	100	0	100	

13.4 Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network.

On breaching of River Training / Flood Protection Works in the reach of Sub camp No. 3 the following Irrigation and roads networks shall be affected.

- **Main Irrigation Network.**
  - Khakh Disty
  - Maddhodass Minor
  - Q.B Link
- **Main Road Network**
  - Balloki – More Khunda Road
  - Lahore – Jahranwala Raod

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Chapter – 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

SITE NO. 03 J-Head Spur at village Kund Qasim and Tie Bund Kund Reham Shah

13.1 PLAN SHOWING ROUTE OF FLOOD WATER COMING OUT OF THE EXPECTED BREACHING POINT SUPPORTED WITH LEVELS



J-Head Spur at village Kund Qasim and Tie Bund Kund Reham Shah

Since flood of 1992, Ravi River drifted main creek along J-Head Spur Kund Qasim, the shank of the spur was under threat of Ravi River and Tie Bund was also damaged during flood 2012.

13.2 Detail of village abadies likely to be affected and this should also be shown on the plan

Sr#	Name of Village	Abadies	Tehsil
1	Kund Qasim	2603 Persons	Nankana Sahib
2	Kund Reham Shah	2950 Persons	Nankana Sahib
3	Faridabad New	1806 Persons	Nankana Sahib

13.3 Strategy and action taken be explained in detail

The main flood camp will be established at Kund Qasim Spur under the supervision of Sub Divisional Officer, Mangtanwala Sub Division. Sub Camp will be established at J-Head Spur Faridabad under the charge of Sub Engineer, Mora Section for monitoring the flood situation in said reach and to make the protective measures against the flood.

13.3.1. Arrangements

To control over critical situation if arises during flood 2026, all arrangements as providing flood fighting material, watching establishment shall be made available from available resources.

13.3.2 Establishment of flood fighting camps

Flood watching establishment will be employed as per limit of floods already fixed for various Magnitude of discharge in the river from 16-06-2026 to 30-09-2026 as per following:-

A J-HEAD SPUR KUND QASIM AND TIE BUND

Watchman required (for three shift)	(16 x 3 x 3)	=	144 No.
Mate required			
1 No. per 8 Beldar	144/ 8	=	18 No.

13.3.3 Duties of officer / Officials and Detail of sub – Camp.

Sr. No	Description	In-charge of Sub-Camp	Location of Sub- Camp	Contact No.	Area of Responsibility
1	Sub Camp	Atta-Ullah Sub Engineer Bara ghar Section along with watching establishment.	J-Head Spur Kund Qasim	0309-4245049	J-Head Spur Faridabad, J-Head Spur Kund Qasim, Concave-o-Convex Guide wall and Tie Bund Kund Rehim Shah

Duties

Sub Divisional Officer

Sub Divisional Officer, will keep close liaison with the Executive Engineer, Sheikhupura and District Administration Sheikhupura. He will keep updating about the flood activities in his area of responsibility. He is responsible to communicate the gauges as well as other data regarding flood to higher ups. He will also be responsible to arrange the fighting through available recourse against flood.

Sub Engineer

Sub Engineer will assist Sub Divisional Officer and he will remain present at camp round the clock. He will also supervise the River Training work by watching establishment and taking remedial measures in the area of responsibility.

13.3.4 Departmental machinery (available)

Not Available.

13.3.5 Machinery available from private source

Machinery will be arranged if required form private source.

13.3.6 Flood Fighting Material (required)

To control over critical situation if arises during flood 2025, following material will be available at main camp. The material required during emergency at reach of sub camp shall be arranged from the main camp

13.3.7 Flood Fighting material available

Sr. No.	Items	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari/Tent	No	01	0	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	0	06	
3	Table	No	01	0	01	
4	Generator (2-3 KVA)	No	01	0	01	
5	Pedestal Fans	No	01	0	01	
6	Charpois	No	02	0	02	
7	Symbolic Jackets	No	50	0	50	
8	Polyethylene Sheet	Kg	100	0	100	
9	Bamboos (4" dia and 10 ft long)	No	100	0	100	
10	Water Cooler	No	01	0	01	
11	Portable Umbrella	No	02	0	02	
12	Life Jackets	No	05	0	05	
13	Utensils (10 person serving)	No	01	0	01	
14	14. Jute/Plastic bags	No	1000	0	1000	
15	Walkie Talkie Set	Sets	02	0	02	
16	16. Raincoats	No	10	0	10	
17	LED flood light	No	10	0	10	
18	Extension Cable (10 ft)	No	02	0	02	
19	Rechargeable torches	No	20	0	10	
20	Kassi	Kg	20	0	20	
21	Axes	No	20	0	20	
22	G.I. Buckets	No	05	0	50	
23	7/44 cable	Feet	500	0	500	

24	Sutli	Kg	02	0	02	
25	Sewing Needles	No	10	0	10	
26	Emergency Medical Kit	No	1	0	01	
27	Wire crates (3x3x3) (only at those camps near river action and where reserve stock exists)	No	100	0	100	

13.4 Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network

On breaching of River Training / Flood Protection Works in the reach of Sub camp No.2 the following Irrigation and roads networks shall be effected.

- **Main Irrigation Net work**
  - Syedwala Disty
- **Main Road Network**
  - Bucheki – Syedwala Road

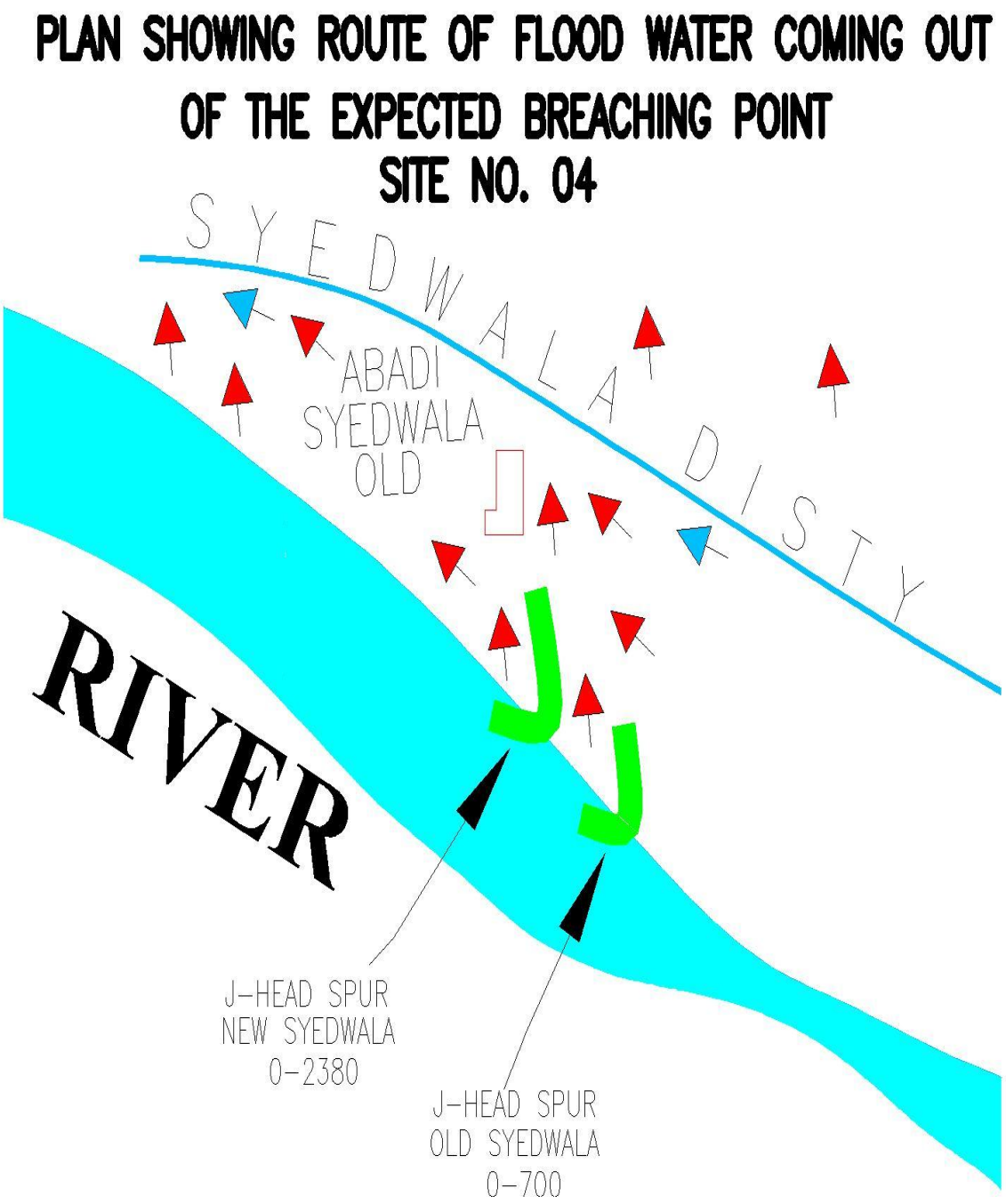
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Chapter – 13

EMERGENCY CONTINGENCY / PLAN FOR VULNERABLE SITES

SITE NO. 04 J-head Spur Syedwala (New) J-head Spur Syedwala Old

13.1 PLAN SHOWING ROUTE OF FLOOD WATER COMING OUT OF THE EXPECTED BREACHING POINT SUPPORTED WITH LEVELS



J-head Spur Syedwala (New) J-head Spur Syedwala Old

Since Flood 1992, Ravi River drifted its main creek towards J-Head Spur Syedwala old as well as Syedwala Town and endangered the abadies and infrastructures. For protection measures the new syedwala spur was constructed and no flood like situation has been observed from last couple of years.

13.2 Detail of village abadies likely to be affected and this should also be shown on the plan

Sr#	Name of Village	Abadies	Tehsil
1	Old Syedwala	3504 Persons	Nankana Sahib
2	New Syedwala	2950 Persons	Nankana Sahib

13.3 Strategy and action taken be explained in detail

The main flood camp will be established at Old Syedwala under the supervision of Sub Divisional Officer, Mangtanwala Sub Division. Sub Camp will be established at J-Head Spur old Syedwala under the charge of Sub Engineer, Mora Section for monitoring the flood situation in said reach and to make the protective measures against the flood.

13.3.1. Arrangements

To control over critical situation if arises during flood 2026, all arrangements as providing flood fighting material, watching establishment shall be made available from available resources.

13.3.2 Establishment of flood fighting camps

Flood watching establishment will be employed as per limit of floods already fixed for various Magnitude of discharge in the river from 16-06-2026 to 30-09-2026.

13.3.3 Duties of officer / Officials and Detail of sub – Camp.

Sr. No	Description	In-charge of Sub-Camp	Location of Sub- Camp	Contact No.	Area of Responsibility
1	Sub Camp	Atta-Ullah Sub Engineer Bara ghar Section along with watching establishment.	J-Head Spur Old Syedwala	0309-4245049	Old and New Syedwala

Duties

Sub Divisional Officer

Sub Divisional Officer, will keep close liaison with the Executive Engineer, Sheikhupura and District Administration Sheikhupura. He will keep updating about the flood activities in his area of responsibility. He is responsible to communicate the gauges as well as other data regarding flood to higher ups. He will also be responsible to arrange the fighting through available recourse against flood.

Sub Engineer

Sub Engineer will assist Sub Divisional Officer and he will remain present at camp round the clock. He will also supervise the River Training work by watching establishment and taking remedial measures in the area of responsibility.

13.3.4 Departmental machinery (available)

Not Available.

13.3.5 Machinery available from private source

Machinery will be arranged if required form private source.

13.3.6 Flood Fighting Material (required)

To control over critical situation if arises during flood 2025, following material will be available at main camp. The material required during emergency at reach of sub camp shall be arranged from the main camp

13.3.7 Flood Fighting material available

Sr. No.	Items	Unit	Required Quantity	Available Quantity	Balance Quantity	Remarks
1	Shouldari/Tent	No	01	0	01	Quantity will be purchased before flood 2026
2	Chairs	No	06	0	06	
3	Table	No	01	0	01	
4	Generator (2-3 KVA)	No	01	0	01	
5	Pedestal Fans	No	01	0	01	
6	Charpois	No	02	0	02	
7	Symbolic Jackets	No	50	0	50	
8	Polyethylene Sheet	Kg	100	0	100	
9	Bamboos (4" dia and 10 ft long)	No	100	0	100	
10	Water Cooler	No	01	0	01	
11	Portable Umbrella	No	02	0	02	
12	Life Jackets	No	05	0	05	
13	Utensils (10 person serving)	No	01	0	01	
14	14. Jute/Plastic bags	No	1000	0	1000	
15	Walkie Talkie Set	Sets	02	0	02	
16	16. Raincoats	No	10	0	10	
17	LED flood light	No	10	0	10	
18	Extension Cable (10 ft)	No	02	0	02	
19	Rechargeable torches	No	20	0	10	
20	Kassi	Kg	20	0	20	
21	Axes	No	20	0	20	
22	G.I. Buckets	No	05	0	50	
23	7/44 cable	Feet	500	0	500	

24	Sutli	Kg	02	0	02	
25	Sewing Needles	No	10	0	10	
26	Emergency Medical Kit	No	1	0	01	
27	Wire crates (3x3x3) (only at those camps near river action and where reserve stock exists)	No	100	0	100	

13.4 Detail of other infrastructure like Electric, Sui Gas, Telephone installations, Road network, other Buildings, Canals and Drainage network

On breaching of River Training / Flood Protection Works in the reach of Sub camp No.03 the following Irrigation and roads networks shall be effected.

- **Main Irrigation Net work**
  - Syedwala Disty
  - Flood Structures
- **Main Road Network**
  - Bucheki – Syedwala Road

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Chapter - 14

ACTION PLAN

14.1 RE-SHUFFLING / RECOUPING PLAN OF RESERVE STOCK OF STONE

CURRENT STATUS OF RESEVE STOCK STONE

Zone:-___LAHORE _____

Sr. No	Name of Structure	Reserve stock limit (as per yard stick)	Minimum requirements 70 %	Quantity available	Balance quantity required	Remarks
1	3	4	5	6	7	9
1	Deg Diversion bund+ Hockey Spur	1.4	0.98	0.491	0.489	Transferred to Rachna Drainage Division, Sheikhupura
2	Mole Head Spur RD 20+000 of MDD Bund	1	0.7	0.267	0.433	
3	J-Head spur Nawan Kot	1.2	0.84	0.354	0.486	
4	J-Head spur Old Syedwala	0.5	0.35	0.0474	0.30262	
5	J-Head spur Syedwala Town	1	0.7		0.7	
6	J-Head spur Kund Qasim	1	0.7	0.378	0.322	
7	J-Head spur Faridabad	1	0.7		0.7	
Total in Lac Cft		**7.1**	**4.97**	**1.53738**	**3.43262**	

14.2 DETAIL OF INLET / OUTLET CROSSING ALONGWITH CLOSING METHODOLOGY

Sr.	Name of Bund / Spur	RD	Outlet / Inlet	Existing position	Closing Methodology
Nil					

STAGES

14.3 DEPLOYMENT OF MACHINERY (Normal to Low Flood)

Deployment of Machinery (Normal to Low Flood)						
Sr. No.	**Structure Name**	**Length (Miles)**	**Excavators**	**Trolleys**	**Dumpers**	**Tractor with Front blade (1 per 15 mile reach)**
1	Madhodass Bund RD 51+180	10.23	S.E shall allow deputation of one (1) excavator & four (4) Trolleys during low flood at camps/vulnerable points & LMB / RMB.		-	**1**
2	J-Head spur Nawaz Kot RD 4100	0.82			-	
3	Mole spur RD 4950 at RD 17+630 / L of MD Bund	0.99			-	
4	J-Head spur at Faridabad RD 2950	0.59			-	
5	J-Head spur at Syedwala RD 2350	0.47			-	
6	RD 121 Syedwala Disty RD 700	0.14			-	
7	J Head Spur Kund Qasim RD 2750	0.55			-	
8	Concavo Convex guide wall spur near Kund Reham Shah RD 3450	0.69			-	
Total					-	1

14.4 DEPLOYMENT OF MACHINERY (Medium to High Flood)

Sr. No.	Structure Name	Length (Miles)	Excavators	Trolleys	Dumpers	Tractor with Front blade
			1 per 7 mile reach	4 per 7 mile reach	2 per 7 mile reach	1 per 7 mile reach
1	Madhodass Bund RD 51+180	10.23	1	5	2	2
2	J-Head spur Nawaz Kot RD 4100	0.82	0	1	-	0
3	Mole spur RD 4950 at RD 17+630 / L of MD Bund	0.99	0	1	0	0
4	J-Head spur at Faridabad RD 2950	0.59	0	0	0	0
5	J-Head spur at Syedwala RD 2350	0.47	0	0	0	0
6	RD 121 Syedwala Disty RD 700	0.14	0	0	0	0
7	J Head Spur Kund Qasim RD 2750	0.55	1	1	0	0
8	Concavo Convex guide wall spur near Kund Reham Shah RD 3450	0.69	0	1	0	0
Total			**2**	**9**	**2**	**2**

14.5 DEPLOYMENT OF MACHINERY (Very High to Exceptionally High Flood)

Sr. No.	Structure Name	Length (Miles)	Excavators		Trolleys	Dumpers	Tractor with Front blade	
			Very High Flood	Exp. High Flood	4 per 5 mile reach	2 per 5 mile reach	Very High Flood	Exp. High Flood
			1 per 5 mile reach	2 per 5 mile reach			1 per 5 mile reach	2 per 5 mile reach
1	Madhodass Bund RD 51+180	10.23	2	4	8	4	2	4
2	J-Head spur Nawaz Kot RD 4100	0.82	0	0	1	0	0	0
3	Mole spur RD 4950 at RD 17+630 / L of MD Bund	0.99	0	0	1	0	0	0
4	J-Head spur at Faridabad RD 2950	0.59	0	0	1	0	0	0
5	J-Head spur at Syedwala RD 2350	0.47	0	0	1	0	0	0
6	RD 121 Syedwala Disty RD 700	0.14	0	0	0	0	0	0
7	J Head Spur Kund Qasim RD 2750	0.55	0	0	1	0	0	0
8	Concavo Convex guide wall spur near Kund Reham Shah RD 3450	0.69	0	0	1	0	0	1
Total			**2**	**4**	**14**	**4**	**2**	**5**

LIST OF LOCAL CONTRACTORS

Name of Govt. Contractor	Contact Number	Remarks
(Warraich Brothers) Rashid Warriach	0300-4884062	Excavators and other machinery may be made available through these contractors.
(Arrain Brothers & CO) Mohammad Tariq	0343-4129807	
Ch: Muhammad Bashir	0300-7432434	
A.M.S Developers	0345-4808579	

14.6 POLICE DEPLOYMENT PLAN

Proforma – 1

Sr.	Site of Breaching Section	Concerned Canal Division	Concerned Police Station and District	Police Persons Deployed		Remarks (if any)
				Inspector / Sub Inspector / A.S.I	Constable	
-	-	-	-	-	-	--

Proforma – 2

Sr.	Vulnerable sites used for illegal cuts during floods	Concerned Canal Division	Concerned Police Station and District	Police Persons Deployed		Remarks (if any)
				Inspector / Sub Inspector / A.S.I	Constable	
1	MDDS RD 37+000 to 40+000	Sheikhupura	Faiza bad District Nankana Sahib	ASI=1	2	--
2	MDDS RD 47+000 to 51+180	Sheikhupura	Faiza bad District Nankana Sahib	ASI=1	2	--
3	J-Head Spur at Village Kund Qasim & Tie Bund Kund Reham Shah	Sheikhupura	Syedwala District Nankana Sahib	ASI=1	2	--

Proforma – 3

Sr.	Name of Barrage	Concerned Canal Division	Concerned Police Station and District	Police Persons Deployed		Remarks (if any)
				Inspector / Sub Inspector / A.S.I	Constable	
1	-	-	-	-	-	--

14.7 DETAIL OF SYNTHETIC BAGS WITH CAPACITY OF 50 KG AND 100 KG.

ITEM	UNIT	REQUIRED QUANTITY	AVAILABLE	BALANCE	REMARKS
Jute/Plastic bags capacity 50 kg	No.	500	0	500	material will be purchased before flood 2026.
Jute/Plastic bags capacity 100 kg	No.	500	0	500	

14.8 DETAILS OF POLYTHENE SHEET OF BLACK COLOUR TO PROTECT UP STREAM SLOPE AGAINST WAVE ACTION AND TO CONTROL SEEPAGE THROUGH EMBANKMENTS.

ITEM	UNIT	REQUIRED QUANTITY	AVAILABLE	BALANCE	REMARKS
Polythene sheets of black color	KG	100 Kg	0	100 Kg	material will be purchased before flood 2026.

14.9 ANY OTHER DETAILS AS PER SOPs APPROVED BY THE ADMINISTRATIVE DEPARTMENT

Will be strictly followed.

Chapter – 15

BACK UP DIVISION (in case of Breach)

Shahdra Canal Division UCC will act as Back up Division in case of any emergency.

Superintending Engineer,
Upper Chenab Canal Circle,
Lahore

Executive Engineer
Sheikhupura Division UCC
Sheikhupura.

Chief Engineer
Irrigation Lahore Zone,
Lahore